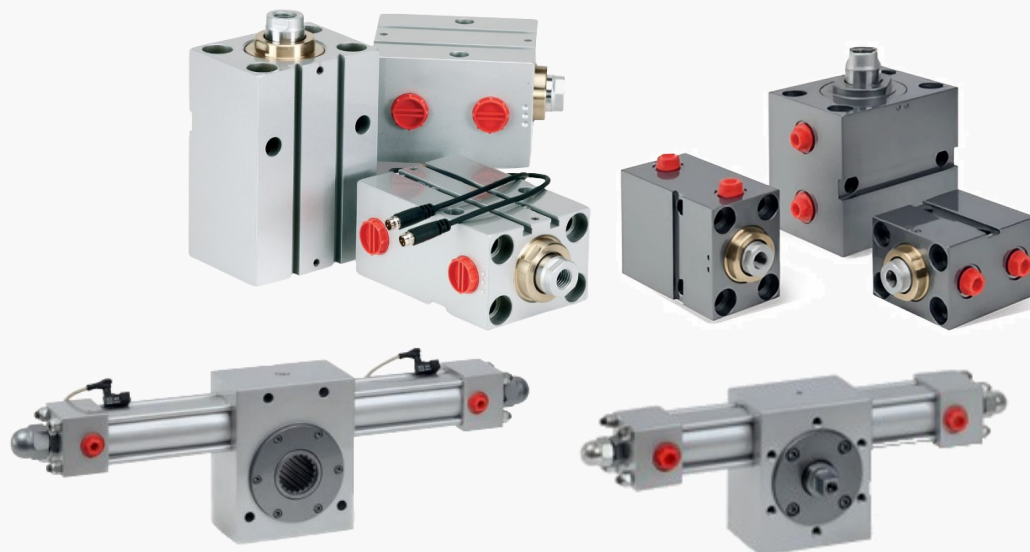




Cilindros Compactos
Cilindros Rotativos

www.resitec.pt

Catalogo de produtos | product catalog junho 2023



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Principais características técnicas |

Main features

- Duplo efeito;
 - Fabricado Alumínio (trado para diminuir o desgaste);
 - Aplicação compacta e modular;
 - Opção de montagem de sensores magnéticos para controlo do embolo;
-
- *Double-acting ;*
 - *Made aluminum with anti-wear treatment.*
 - *Compact and highly modular construction is required.*
 - *Allows the use of built-in magnetic sensors to control the position of the plunger*



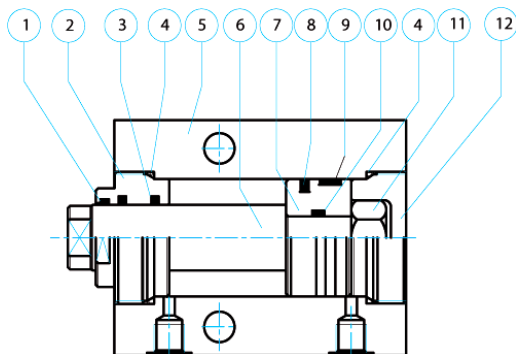
Características técnicas | *Technical Features*

Ø	de 25 a 63 mm	de 80 a 100mm
Pressão máxima <i>Max pressure</i>	160	100
Curso standard <i>Stroke</i>	20, 50, 80, 100 mm	

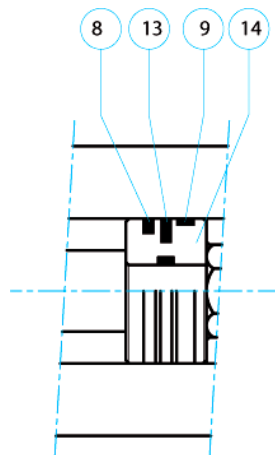
Código Vedante <i>Seal code</i>	Performance <i>Performance</i>				Fluido <i>Fluid</i>	
	Alta Vedação <i>High sealing</i>	Baixo atrito <i>Low friction</i>	Velocidade máxima <i>Max speed</i>	Temperatura °C Min. Max.	Óleo Hidráulico <i>Hydraulic oil</i>	HFC óleo <i>HFC-fluid</i>
S	x		0,5 m/s	-20 +80	x	
L		X	1 m/s	-20 +80	x	
H		X	1 m/s	-20 +150	x	
G		x	0,5 m/s	-20 +80		x

Para velocidades de piston superiores a 0,1 m/s, limite o curso no exterior, evitando que o piston atinga o casquilho de guia ou a tampa traseira.
For piston speeds greater than 0.1 m/s, we recommend limiting the stroke on the outside, preventing the piston from hitting the guide bush or the rear cover.

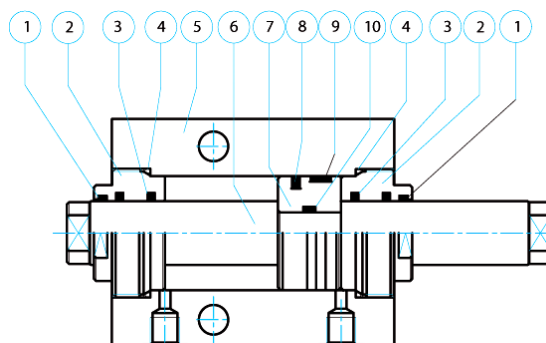
CILINDRO STANDARD |
STANDARD CYLINDER



VERSÃO MAGNÉTICA |
MAGNETIC VERSION



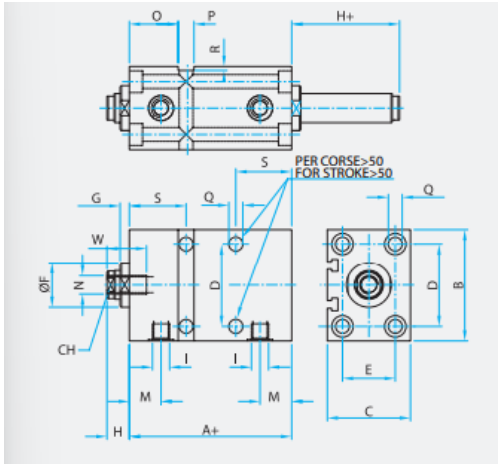
CILINDRO COM DUPLA HASTE |
DOUBLE ROD CYLINDER



	Componente Component	Material Material
2	Guia da haste <i>Guide Bushing</i>	Bronze <i>Bronze</i>
5	Tubo <i>Tube</i>	Aço <i>Steel</i>
6	Haste <i>Rod</i>	Aço cromado <i>Chromeplated steel</i>
7	Piston <i>Piston</i>	Aço <i>Steel</i>
11	Porca de fixação haste <i>Rod fixing nut</i>	Aço <i>Steel</i>
12		Aço <i>Steel</i>
13	Tampa traseira <i>Back cover</i>	Aço <i>Steel</i>

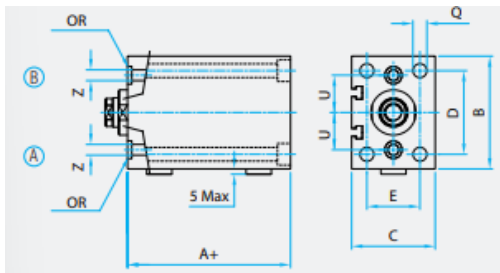
	Componente Component	Especificações	Material Material			
			S	L	H	G
1	Raspador <i>Scraper</i>	ISO 7425/2	NBR + PTFE	NBR + PTFE	Viton® + PTFE	NBR + PTFE CG
3	Vedante <i>Sealer</i>					
4	Vedante tubo <i>Pipe Sealant</i>					
8	Vedante piston <i>Piston seal</i>	ISO 7425/1	NBR + PTFE			
9	Guia do piston <i>Piston guide</i>				Viton®	Resina
10	Vedante do piston <i>Piston seal</i>			NBR		NBR

X - ENTRADA DE ÓLEO ROSCADA | *THREADED OIL PORTS*



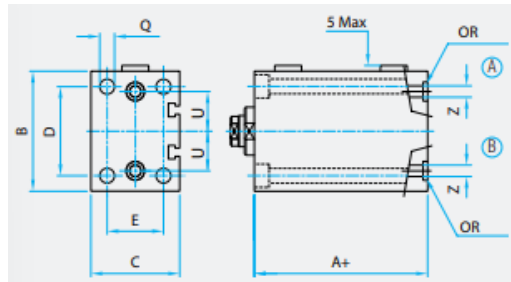
Ø	25	32	40	50	63	80	100
Haste	18	22	22	28	28	36	45
A	57+	60+	73+	75+	85+	100+	110+
B	65	75	85	100	115	140	170
C	45	55	63	75	90	110	140
CH	15	19	19	22	22	30	36
D	50	55	63	76	90	110	135
E	30	35	40	45	55	75	95
F f8	32	34	34	42	50	60	72
G	6.5	8	7	8	7	7	8
H	14	15	17	20	20	20	25
I	G 1/4"	G 1/4"	G 1/4"	G 1/4"	G 3/8"	G 1/2"	G 1/2"
M	17	18	23.5	23.5	26	30	35
N	M10	M12	M14	M20	M20	M27	M33
O	32	34	37	37.5	47.5	50	60
P _{+0.2} ^{+0.1}	10	12	12	15	15	20	20
Q	8.5	10.5	10.5	13	13	17	17
R	2	3	3	5	5	5	5
S	37	40	43	45	55	60	70
W	23	23	30	30	30	40	50

A - ENTRADA DE ÓLEO FRONTAL | *FRONT SIDE OIL PORTS*



Ø	25	32	40	50	63	80	100
A	57+	60+	73+	75+	85+	100+	110+
B	65	75	85	100	115	140	170
C	45	55	63	75	90	110	140
D	50	55	63	76	90	110	135
E	30	35	40	45	55	75	95
OR	OR106 (610)	OR106 (610)	OR106 (610)	OR108 (611)	OR108 (611)	OR108 (611)	OR108 (611)
Q	8.5	10.5	10.5	13	13	17	17
U	25.5	30	32.5	40	47.5	59	70
Z	4	4	5	7	7	7	7

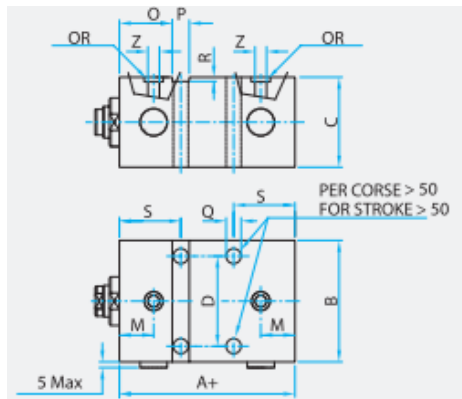
B - ENTRADA DE ÓLEO POSTERIOR | REAR SIDE OIL PORTS



⊕ PUXE ⊖ EMPURRE

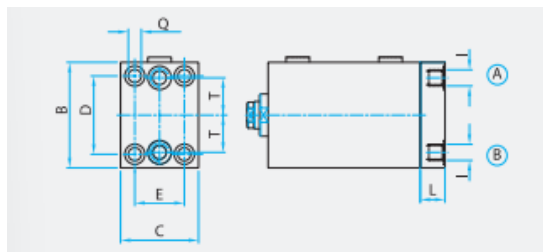
Ø	25	32	40	50	63	80	100
A	57+	60+	73+	75+	85+	100+	110+
B	65	75	85	100	115	140	170
C	45	55	63	75	90	110	140
D	50	55	63	76	90	110	135
E	30	35	40	45	55	75	95
OR	OR106 (610)	OR106 (610)	OR106 (610)	OR108 (611)	OR108 (611)	OR108 (611)	OR108 (611)
Q	8.5	10.5	10.5	13	13	17	17
U	25.5	30	32.5	40	47.5	59	70
Z	4	4	5	7	7	7	7

E - ENTRADA DE ÓLEO LATERAL | LATERAL OIL PORTS



Ø	25	32	40	50	63	80	100
A	57+	60+	73+	75+	85+	100+	110+
B	65	75	85	100	115	140	170
C	45	55	63	75	90	110	140
D	50	55	63	76	90	110	135
M	17	18	23.5	23.5	26	30	35
O	32	34	37	37.5	47.5	50	60
OR	OR106 (610)	OR106 (610)	OR106 (610)	OR108 (611)	OR108 (611)	OR108 (611)	OR108 (611)
P _{+0.2} ^{+0.1}	10	12	12	15	15	20	20
Q	8.5	10.5	10.5	13	13	17	17
R	2	3	3	5	5	5	5
S	37	40	43	45	55	60	70
Z	4	4	5	7	7	7	7

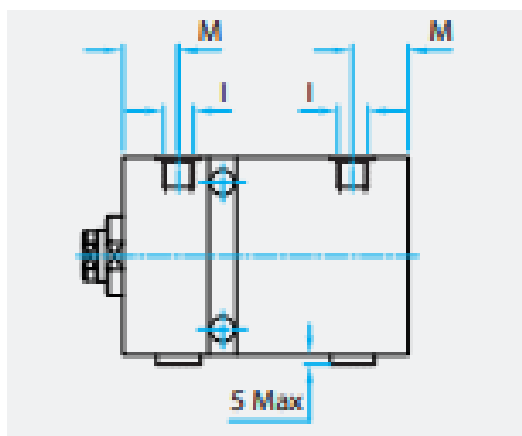
BASE DE CONEXÃO VERSÃO B | *PLATE CONNECTIONS - VERSION "B"*



A - PUXE B-EMPURRE

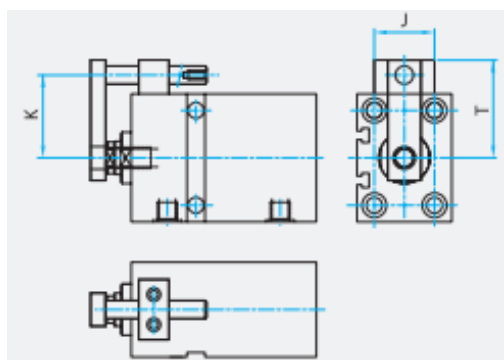
Ø	25	32	40	50	63	80	100
B	65	75	85	100	115	140	170
C	45	55	63	75	90	110	140
D	50	55	63	76	90	110	135
E	30	35	40	45	55	75	95
I	G 1/4"	G 1/4"	G 1/4"	G 1/4"	G 3/8"	G 1/2"	G 1/2"
L	20	20	20	24	30	30	30
Q	8.5	10.5	10.5	13	13	17	17
T	16	20	30	37	40	50	65

AS - CONEXÃO ADICIONAL | *ADDITIONAL CONNECTION*



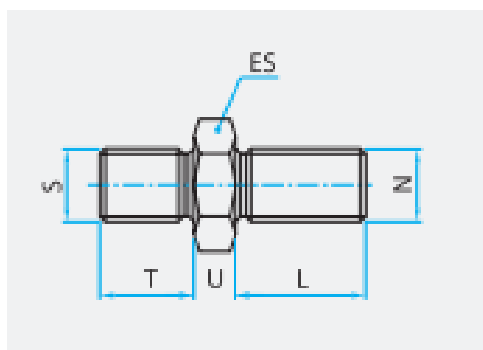
Ø	25	32	40	50	63	80	100
I	G 1/4"	G 1/4"	G 1/4"	G 1/4"	G 3/8"	G 1/2"	G 1/2"
M	17	18	23.5	23.5	26	30	35

AR - SISTEMA ANTI-ROTAÇÃO | *ANTI-ROTATION SYSTEM*



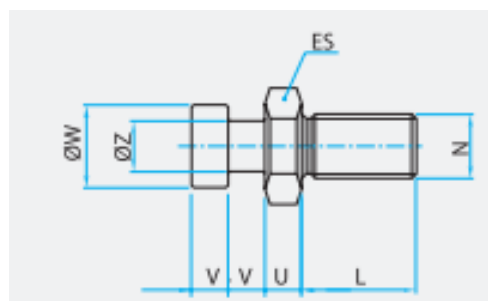
Ø	25	32	40	50	63	80	100
K	45	50	55	62.5	70	82.5	97.5
J	40	40	40	40	40	40	50
T	55	60	65	72.5	80	92.5	107.5

EM - ACESSÓRIO ROSCADO | MALE ROD END

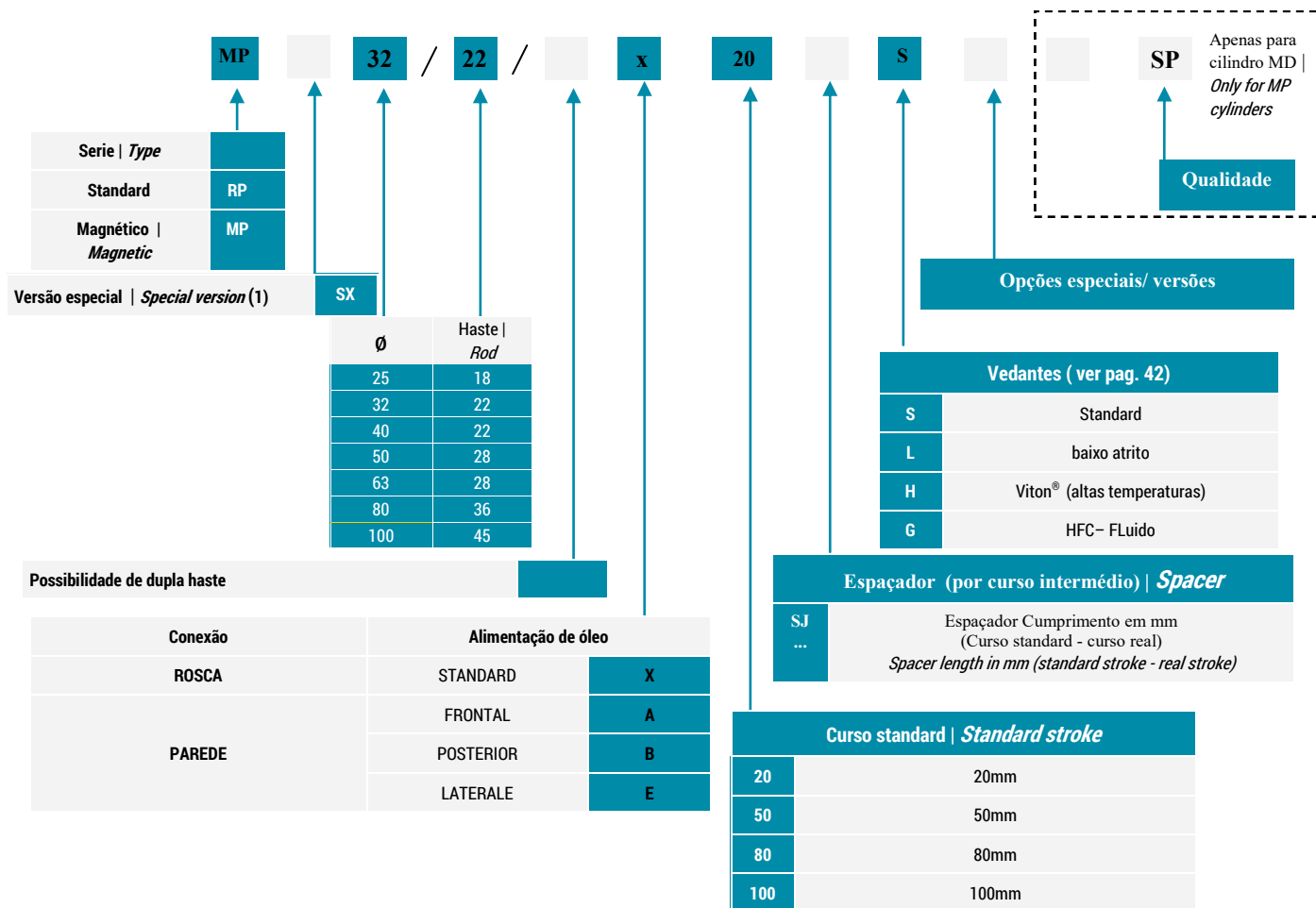


Ø	25	32	40	50	63	80	100
TIPO	EM10	EM12	EM14	EM20	EM20	EM27	EM33
ES	17	19	22	30	30	36	46
L	20	20	25	30	30	40	50
N	M10	M12	M14	M20	M20	M27	M33
S	M10x1.25	M12x1.25	M14x1.5	M20x1.5	M20x1.5	M27x2	M33x2
T	14	16	18	28	28	36	45
U	6	7	8	9	9	12	14

ET - CONJUNTO FLUTUANTE | FLOATING JOINT

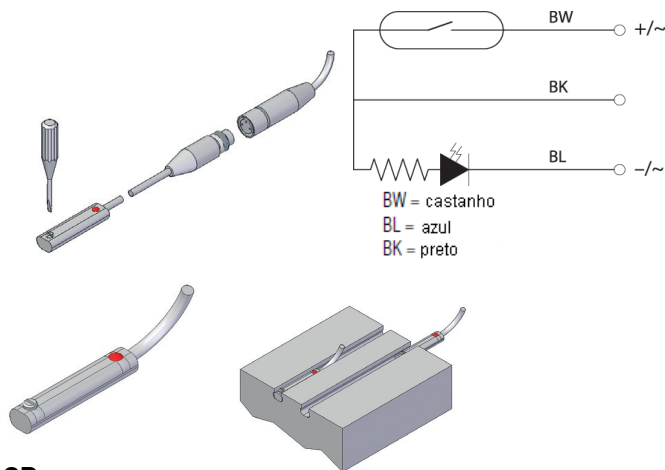


Ø	25	32	40	50	63	80	100
TIPO	ET10	ET12	ET14	ET20	ET20	ET27	ET33
ES	17	19	22	30	30	36	46
L	20	20	25	30	30	40	50
N	M10	M12	M14	M20	M20	M27	M33
U	6	7	8	9	9	12	14
V	7	8	8	10	10	12.5	16
W	16	18	18	22	22	28	35
Z	10	11	11	14	14	18	22



(1) Indicar SX sempre que seleccionar opções ou versões especiais. Em seguida, digite na caixa no final do código, o código correspondente seguido por qualquer n. desenho, caso exista.

(2) Indicate SX whenever you have options or special versions. Then type in the box at the end of the code, the corresponding code followed by any drawing, if any.



SP

Características técnicas | *Technical Features*

Tensão <i>Voltage</i>	24V DC
Corrente máxima (a 25 °C) <i>Max current (at 25 °C)</i>	0.25 A
Circuito elétrico <i>Electric circuit</i>	REED
Tempo ON <i>Switch on time</i>	0.8 ms
Tempo OFF <i>Switch off time</i>	0.1ms
Vida útil Electric <i>service life</i>	10 ⁷ impulsos
Grau de proteção <i>Protection rating</i>	IP 67 EN60529
Gama de temperatura <i>Protection rating</i>	-20 +80 °C
Indicador Visual <i>signal</i>	LED
Cabo <i>Cable</i>	3x0.25mm ²
Comprimento do cabo <i>Cable length</i>	5.0m

Uso correto do sensor magnético

Não exceder os valores de tensão e corrente especificados na tabela.

Os picos de corrente podem ser causados por cargas capacitivas (ex. cabos com comprimentos superiores a 3 metros).

Os Picos de tensão podem ser causados por indução (ex. electroválvulas, relés, etc.).

A distorção magnética pode ser causada por massas de ferro ou na presença de campos magnéticos fortes (ex. motores elétricos, bobinas, inversores, etc.)

Para cursos inferiores a 20 mm em contato com nosso departamento técnico.

Correct use of the magnetic sensor

Do not exceed the voltage and current values specified in the table.

Current spikes can be caused by capacitive loads (e.g. cables longer than 3 meters).

Voltage spikes can be caused by induction (e.g. solenoid valves, relays, etc.).

Magnetic distortion can be caused by iron masses or in the presence of strong magnetic fields (e.g. electric motors, coils, inverters, etc.)

For strokes smaller than 20 mm contact our technical departmen

Aplicações | *Industrial uses*

Automação industrial.

Opção com dispositivo anti-rotação e limitadores de curso.

Suitable for automated industrial applications.

Also available with anti-rotation device and mechanical end stops to control end of stroke positions.

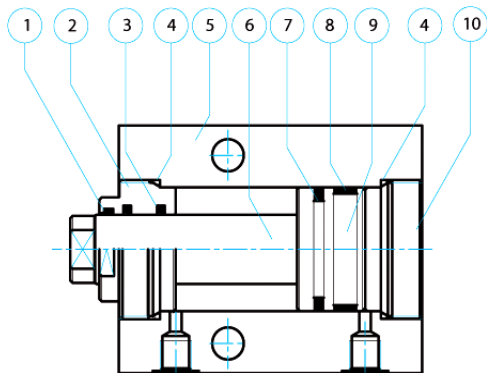


Características técnicas | *Technical Features*

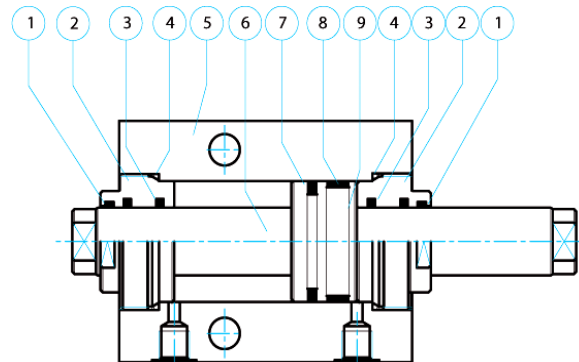
Ø	de 25 a 100 mm
Pressão trabalho	250 max.320
Curso standard	20, 50, 80, 100 mm

Código Vedante <i>Seal code</i>	Performance				Fluido		
	Alta Vedação <i>High sealing</i>	Baixo atrito <i>Low friction V</i>	Velocidade máxima <i>Max speed</i>	Temperatura °C Min. Max.		Óleo Hidráulico <i>Hydraulic oil</i>	HFC óleo <i>HFC-fluid</i>
S	x		0,5 m/s	-20	+80	x	
L		X	1 m/s	-20	+80	x	
H		X	1 m/s	-20	+150	x	
G		x	0,5 m/s	-20	+80		x

CILINDRO STANDARD |
 STANDARD CYLINDER



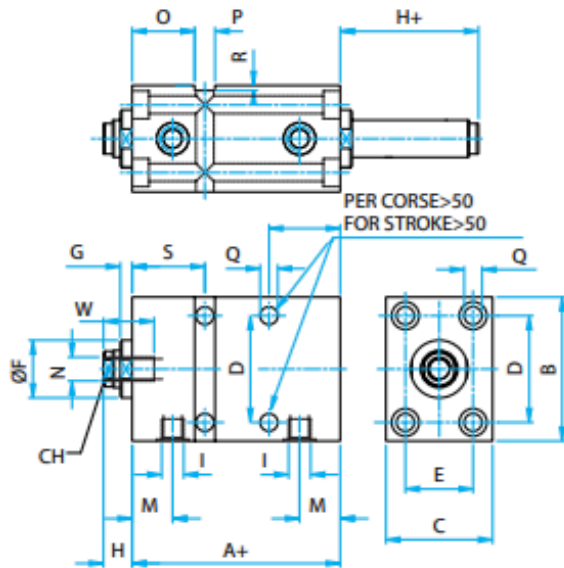
CILINDRO COM DUPLA HASTE |
 DOUBLE ROD CYLINDER



	Componente Component	Material Material
2	Guia da haste <i>Guide Bushing</i>	Bronze <i>Bronze</i>
5	Tubo <i>tube</i>	Aço <i>Steel</i>
6	Haste <i>Rod</i>	Aço cromado <i>Chromeplated steel</i>
9	Piston <i>Piston</i>	Aço <i>Steel</i>
10	Tampa traseira <i>Rear cap</i>	

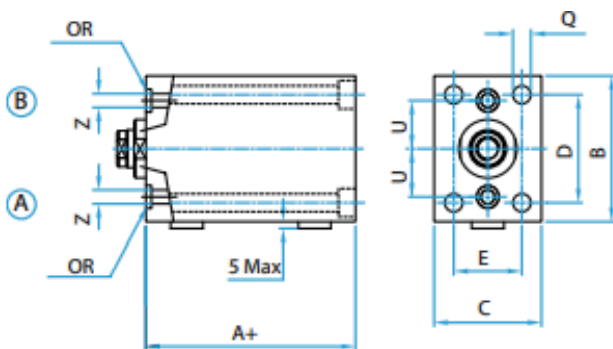
	Componente Component	Especificações specifications	Material Material			
			S	L	H	G
1	Raspador <i>Scraper</i>		NBR + PTFE	NBR + PTFE	Viton® + PTFE	NBR + PTFE CG
3	Vedante <i>Sealer</i>	ISO 7425/2				
4	Vedante tubo <i>Pipe sealant</i>		NBR + PU	Resina		
7	Vedante piston <i>Piston seal</i>	ISO 7425/1				
8	Guia do piston <i>Piston guide</i>					

X - ENTRADA DE ÓLEO ROSCADA | THREADED OIL PORTS



Ø	25	32	40	50	63	80	100
Haste	18	22	22	28	28	36	45
A	57+	60+	73+	75+	85+	100+	110+
B	65	75	85	100	115	140	170
C	45	55	63	75	90	110	140
CH	15	19	19	22	22	30	36
D	50	55	63	76	90	110	135
E	30	35	40	45	55	75	95
F f8	32	34	34	42	50	60	72
G	6.5	8	7	8	7	7	8
H	14	15	17	20	20	20	25
I	G 1/4"	G 1/4"	G 1/4"	G 1/4"	G 3/8"	G 1/2"	G 1/2"
M	17	18	23.5	23.5	26	30	35
N	M10	M12	M14	M20	M20	M27	M33
O	32	34	37	37.5	47.5	50	60
P _{+0.2} ^{+0.1}	10	12	12	15	15	20	20
Q	8.5	10.5	10.5	13	13	17	17
R	2	3	3	5	5	5	5
S	37	40	43	45	55	60	70
W	23	23	30	30	30	40	50

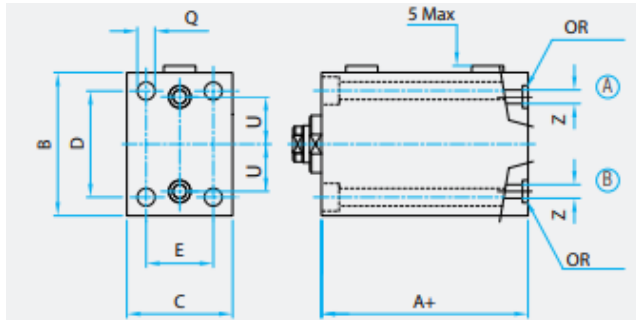
A - ENTRADA DE ÓLEO FRONTAL | FRONT SIDE OIL PORTS



A - Puxe/Push B - Empurre/Pull

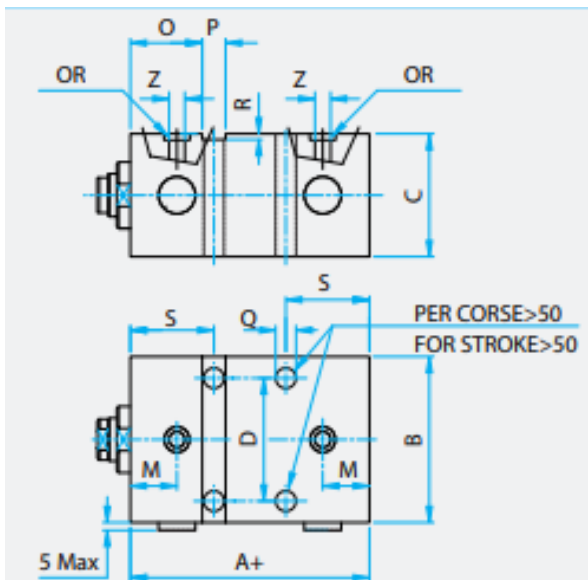
Ø	25	32	40	50	63	80	100
A	57+	60+	73+	75+	85+	100+	110+
B	65	75	85	100	115	140	170
C	45	55	63	75	90	110	140
D	50	55	63	76	90	110	135
E	30	35	40	45	55	75	95
OR	OR106 (610)	OR106 (610)	OR106 (610)	OR108 (611)	OR108 (611)	OR108 (611)	OR108 (611)
Q	8.5	10.5	10.5	13	13	17	17
U	25.5	30	32.5	40	47.5	59	70
Z	4	4	5	7	7	7	7

B - ENTRADA DE ÓLEO POSTERIOR | REAR SIDE OIL PORTS



Ø	25	32	40	50	63	80	100
A	57+	60+	73+	75+	85+	100+	110+
B	65	75	85	100	115	140	170
C	45	55	63	75	90	110	140
D	50	55	63	76	90	110	135
E	30	35	40	45	55	75	95
OR	OR106(610)			OR108(611)			
Q	8.5	10.5	10.5	13	13	17	17
U	25.5	30	32.5	40	47.5	59	70
Z	4	4	5	7	7	7	7

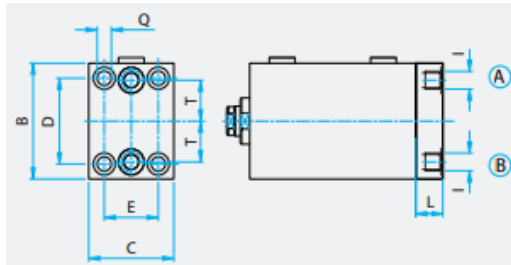
E - ENTRADA DE ÓLEO LATERAL | LATERAL OIL PORTS



Ø	25	32	40	50	63	80	100
A +	57+	60+	73+	75+	85+	100+	110+
B	65	75	85	100	115	140	170
C	45	55	63	75	90	110	140
D	50	55	63	76	90	110	135
M	17	18	23.5	23.5	26	30	35
O	32	34	37	37.5	47.5	50	60
OR	OR106 (610)			OR108 (611)			
P	10	12	12	15	15	20	20
^{+0.1} ^{+0.2} Q	8.5	10.5	10.5	13	13	17	17
R	2	3	3	5	5	5	5
S	37	40	43	45	55	60	70
Z	4	4	5	7	7	7	7

+ = SOMAR AO CURSO | add stroke

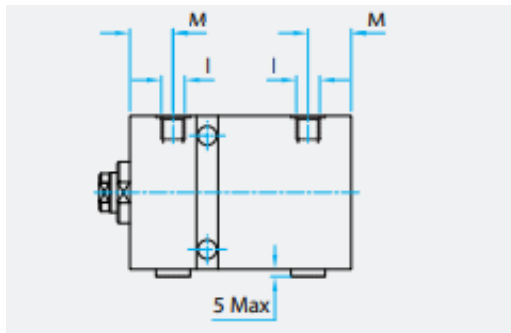
BU - BASE DE CONEXÃO VERSÃO B | MAGNETIC PLATE CONNECTIONS - VERSION "B"



⊕ PUXE ⊖ EMPURRE

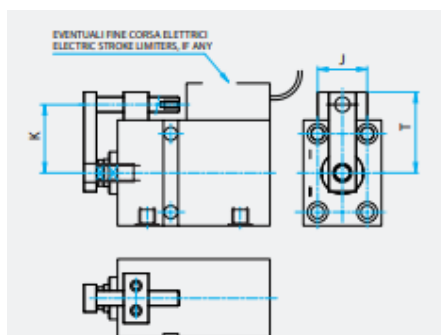
Ø	25	32	40	50	63	80	100
B	65	75	85	100	115	140	170
C	45	55	63	75	90	110	140
D	50	55	63	76	90	110	135
E	30	35	40	45	55	75	95
I	G 1/4"	G 1/4"	G 1/4"	G 1/4"	G 3/8"	G 1/2"	G 1/2"
L	20	20	20	24	30	30	30
Q	8.5	10.5	10.5	13	13	17	17
T	16	20	30	37	40	50	65

AS - CONEXÃO ADICIONAL | ADDITIONAL CONNECTION



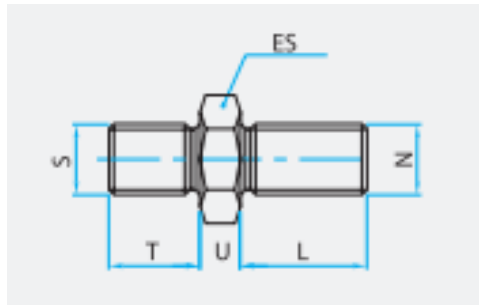
Ø	25	32	40	50	63	80	100
I	G 1/4"	G 1/4"	G 1/4"	G 1/4"	G 3/8"	G 1/2"	G 1/2"
M	17	18	23.5	23.5	26	30	35

AR - SISTEMA ANTI-ROTAÇÃO | ANTIROTATION SYSTEM AND STROKE LIMITERS



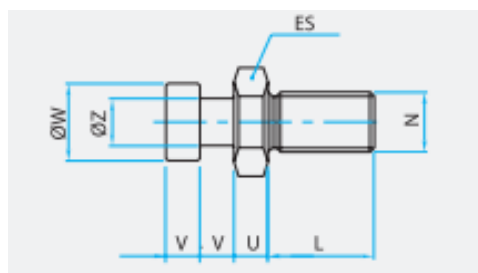
Ø	25	32	40	50	63	80	100
K	45	50	55	62.5	70	82.5	97.5
J	40	40	40	40	40	40	50
T	55	60	65	72.5	80	92.5	107.5

EM - ACESSÓRIO DUPLO MACHO | MALE ROD END

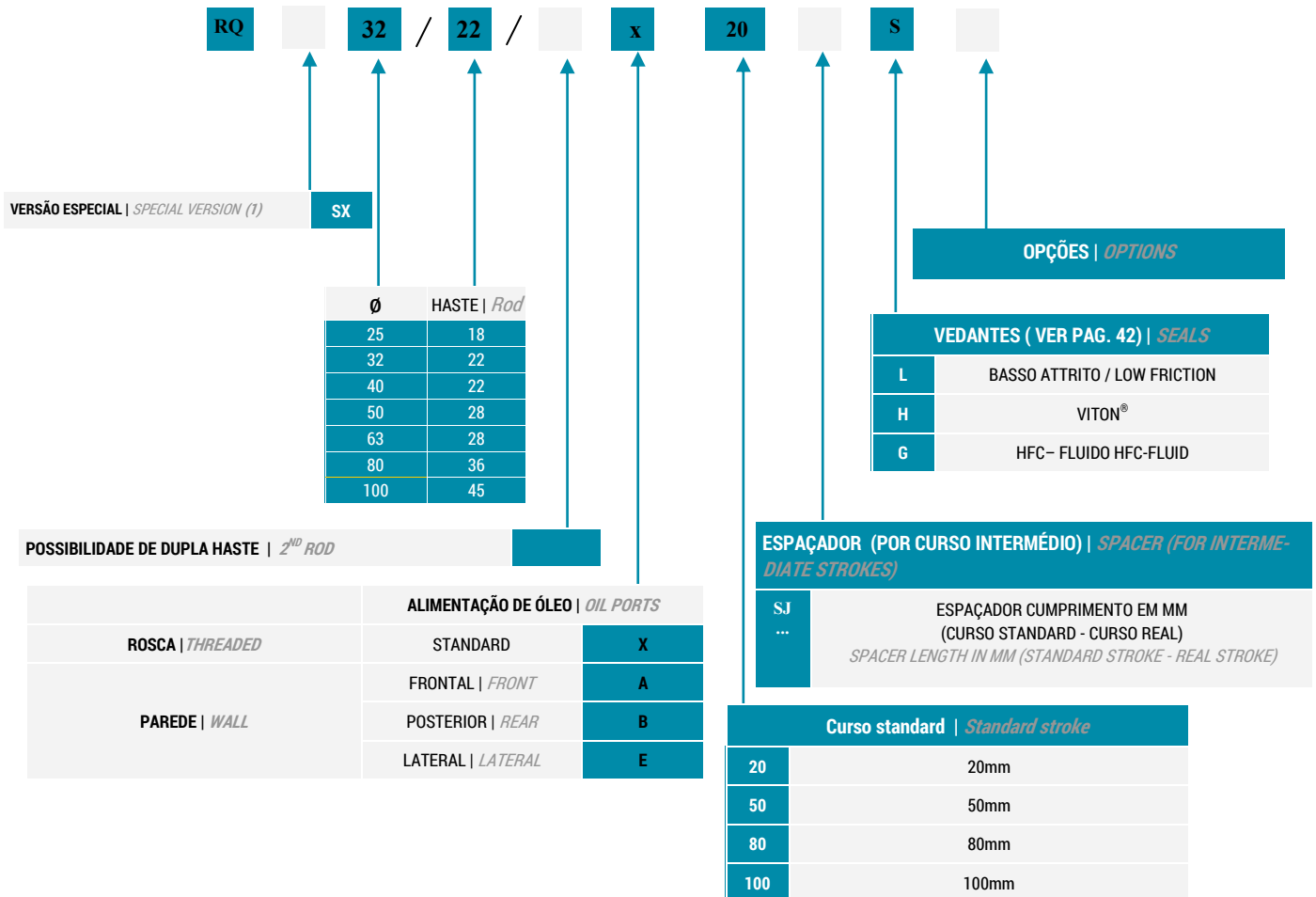


Ø	25	32	40	50	63	80	100
TIPO	EM10	EM12	EM14	EM20	EM20	EM27	EM33
ES	17	19	22	30	30	36	46
L	20	20	25	30	30	40	50
N	M10	M12	M14	M20	M20	M27	M33
S	M10x1.25	M12x1.25	M14x1.5	M20x1.5	M20x1.5	M27x2	M33x2
T	14	16	18	28	28	36	45
U	6	7	8	9	9	12	14

ET - CONJUNTO FLUTUANTE | FLOATING JOINT



Ø	25	32	40	50	63	80	100
TIPO	ET10	ET12	ET14	ET20	ET20	ET27	ET33
ES	17	19	22	30	30	36	46
L	20	20	25	30	30	40	50
N	M10	M12	M14	M20	M20	M27	M33
U	6	7	8	9	9	12	14
V	7	8	8	10	10	12.5	16
W	16	18	18	22	22	28	35
Z	10	11	11	14	14	18	22



(1) Indicar SX sempre que tiver opções ou versões especiais. Em seguida, digite na caixa no final do código, o código correspondente seguido por qualquer n. desenho, caso exista.

(1) Add SX when the cylinder has special options. Then, after the ordering code, specify the corresponding code Codifica guidata interattiva disponibile su www.confortinet.com (see page 56) followed by the drawing's number, if any.

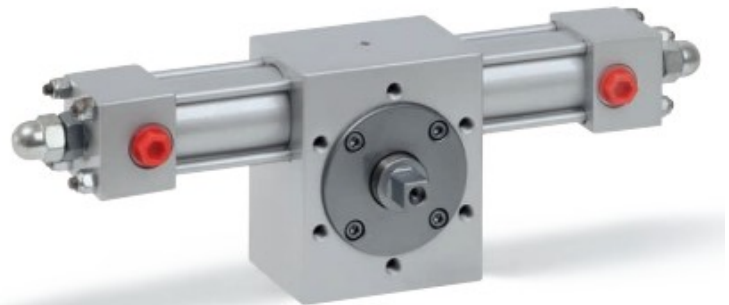
Características Principais

Main features

- Manutenção simples;
 - Binário gerado por roda dentada e cremalheira;
 - Ajuste do amortecimento;
 - Ajuste do curso, regulável +/- 5°;
 - Opção de pistão magnético com sensores de proximidade ao longo do curso do pistão;
- *The rotary actuators have damping adjustment, which can generate a damped torque comparable to the maximum torque of the cylinder.*
 - *The end stroke adjustment allows the elimination of the system with an adjustment range +/- 5°.*
 - *They are available with magnetic piston for applications with magnetic proximity sensors along the piston stroke*
 - *This solution simplifies the kinematics and maintenance required during their life cycle.*



MR

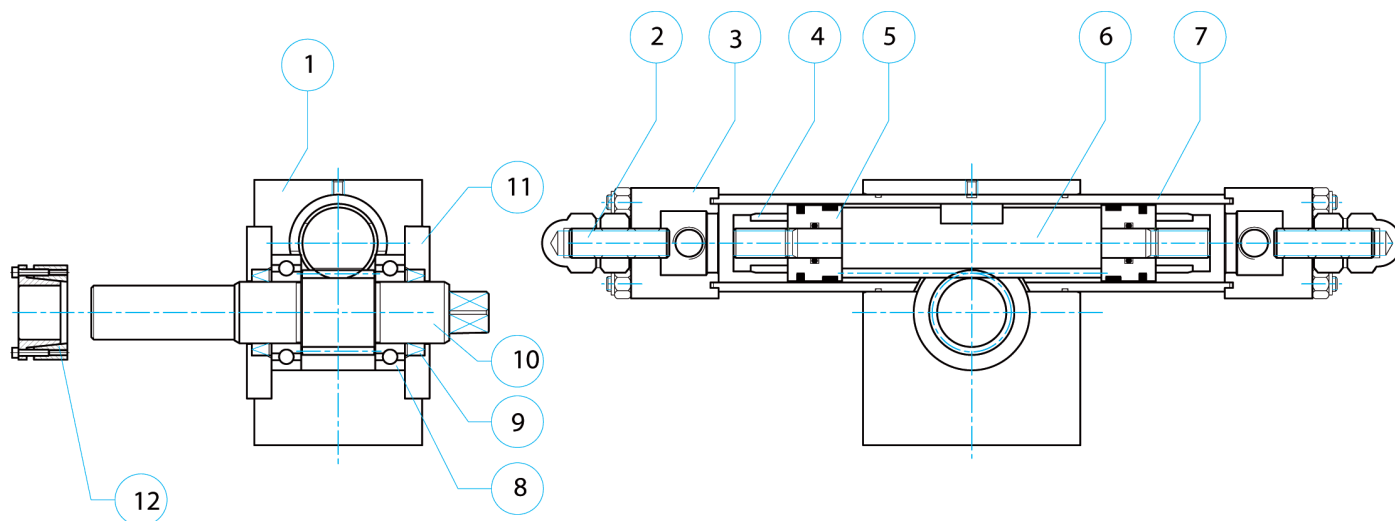


HR

Características técnicas <i>Technical Features</i>					
		HR 32/32	HR 40/ 70	HR 63/ 96	
Ø		32	40	63	
Curso específico <i>Specific stroke (1)</i>		0.28	0.61	0.83	
Binário específico <i>specify binary</i>		Nm/ bar	1.2	4	12
Pressão de trabalho <i>work pressure</i>		bar	50	100	100
Pressão de pico <i>peak pressure</i>		bar	80	140	140
Velocidade máxima de rotação <i>Max. speed rotation</i>		rad/ sec	30	14	10
Peso <i>Weight</i>			4.80	12.50	43

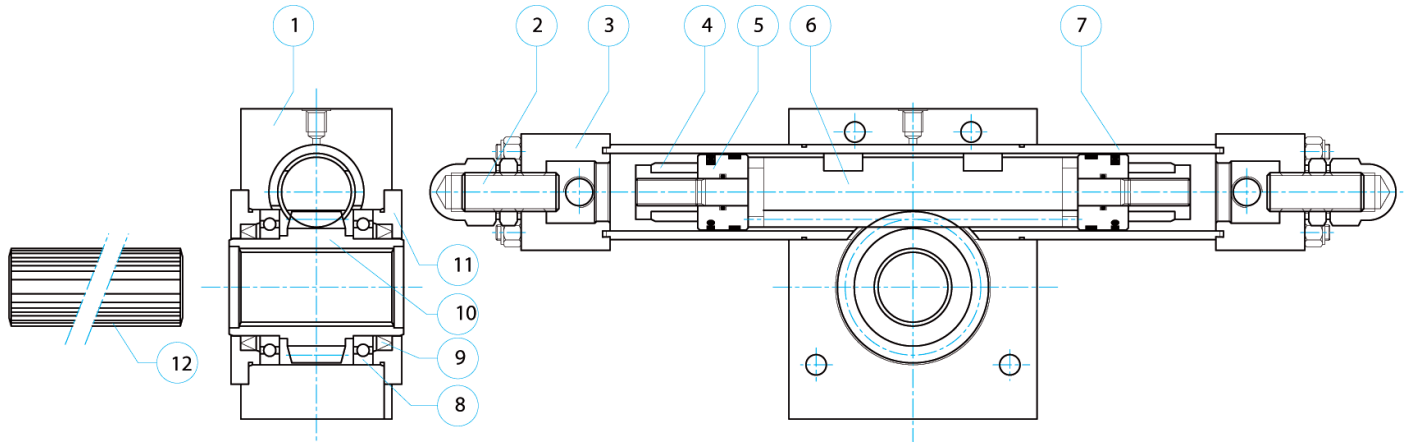
(1) Curso específico para cada ângulo de rotação: por exemplo HR/70 –180° curso (0.61x180)=110

Código Vedante <i>Seal code</i>	Performance <i>Performance</i>				Fluido <i>Fluid</i>		
	Alta Vedação <i>High sealing</i>	Baixo atrito <i>Low friction</i>	Velocidade máxima <i>Max speed</i>	Temperatura °C Min. Max.		Óleo Hidráulico <i>Hydraulic oil</i>	HFC óleo <i>HFC-fluid</i>
S	x		0,5 m/s	-20	+80	x	
L		X	1 m/s	-20	+80	x	
H		X	1 m/s	-20	+150	x	
G		x	0,5 m/s	-20	+80		x



HR 32/32

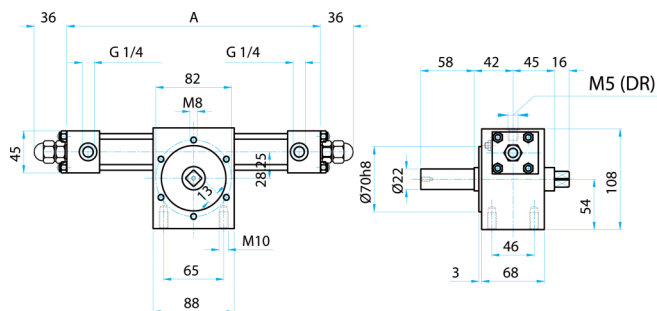
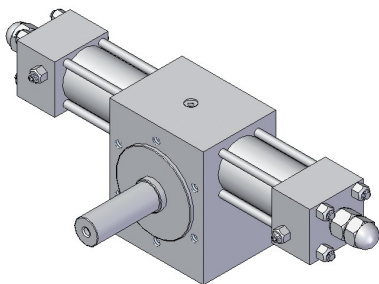
	Componente Component	Material Material
1	Corpo Body	Alumínio Aluminum
2	Ajuste do curso +/-5° Stroke adjuster +/-5°	Aço Steel
3	Cabeça Head	Aço Steel
4	Amortecimento Cushioning	Aço temperado Hardened steel
5	Piston Piston	Aço Steel
6	Rack Rack	Liga de aço Alloy steel
7	Tubo Tube	Aço Steel
8	Rolamento esférico Ball bearing	Pressão de pico peak pressure
9	Vedante do eixo de rotação Rotating shaft seal	NBR
10	Roda dentada Cogwheel with shaft	Liga de aço Alloy steel
11	Flange de fecho Closing flange	Aço Steel
12*	Grampo de eixo Shaft clamp	* Fornecido sob pedido by order



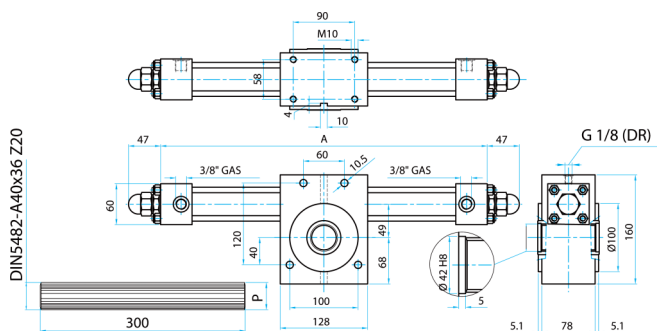
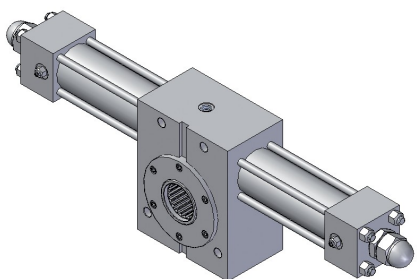
HR 40/70 HR 63/96

	Componente Component	Material Material
1	Corpo <i>Body</i>	Alumínio <i>Aluminum</i>
2	Ajuste do curso +/-5° <i>Stroke adjuster +/-5°</i>	Aço <i>Steel</i>
3	Cabeça <i>Head</i>	Aço <i>Steel</i>
4	Amortecimento <i>Cushioning</i>	Aço temperado <i>Hardened steel</i>
5	Piston <i>Piston</i>	Aço <i>Steel</i>
6	Rack <i>Rack</i>	Liga de aço <i>Alloy steel</i>
7	Tubo <i>Tube</i>	Aço <i>Steel</i>
8	Rolamento esférico <i>Ball bearing</i>	
9	Vedante do eixo de rotação <i>Rotating shaft seal</i>	NBR
10	Roda dentada <i>Cogwheel</i>	Liga de aço <i>steel alloy</i>
11	Flange de fecho <i>Closing flange</i>	Aço <i>Steel</i>
12*	Grampo de eixo <i>Axle clamp</i>	

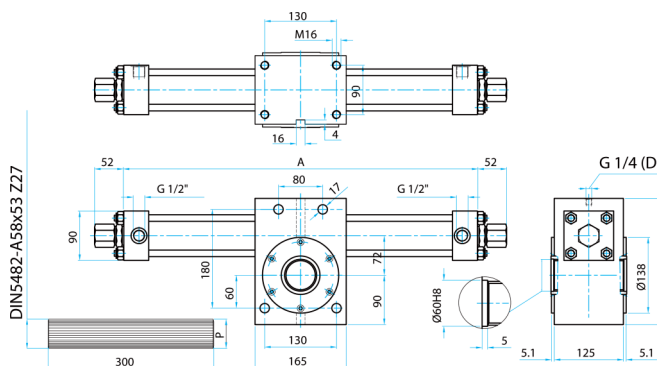
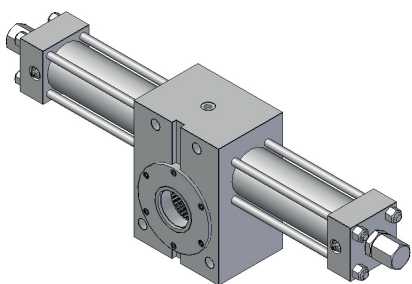
HR 32/32



HR 40/70

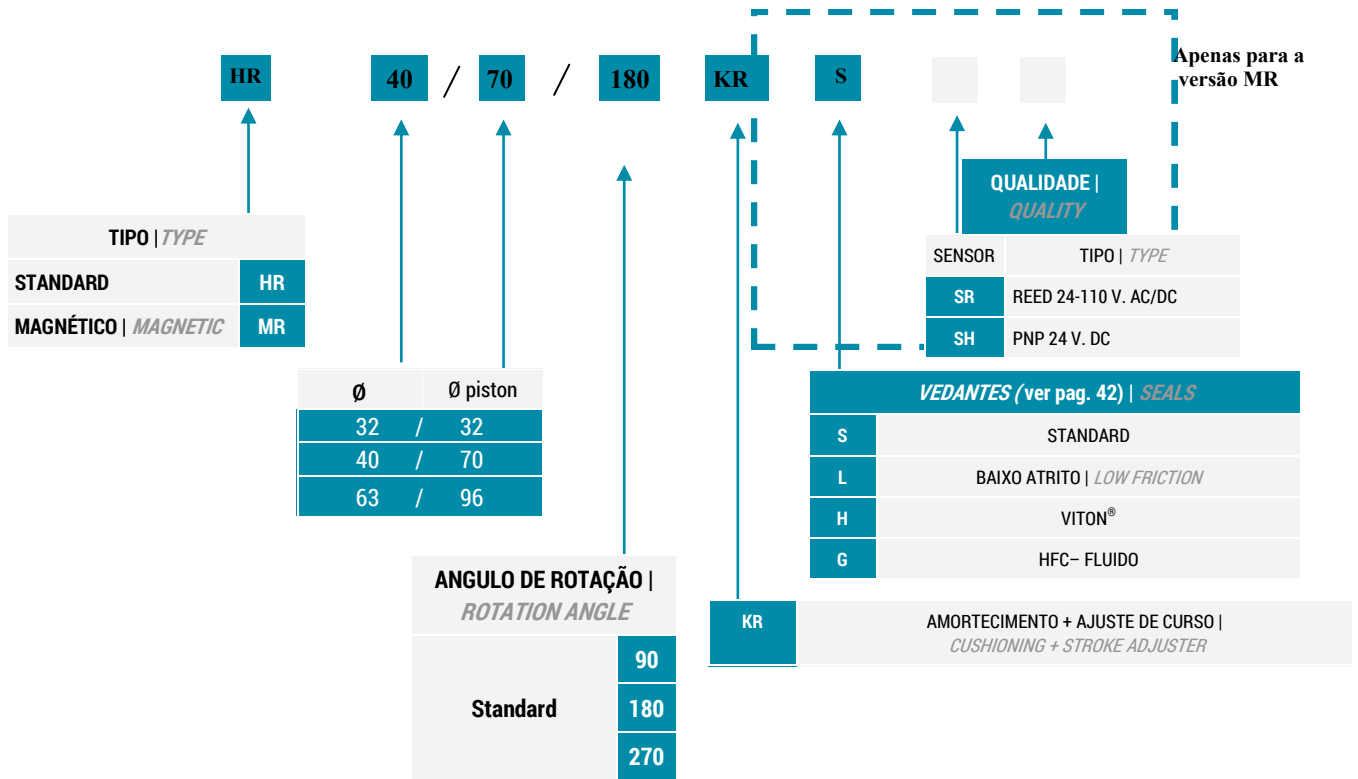


HR 63/96



É obrigatório ligar o dreno (DR) ao tanque |
The drain (DR) must be linked to the tank

A	ANGULO DE ROTAÇÃO <i>Rotation Angle</i>		
Tipo <i>Type</i>	90	180	270
HR 32/32	222	272	322
HR 40/70	368	478	587
HR 63/96	462	610	760



CÓDIGO DE ENCOMENDA PARA EIXO ESTRIADO

Z 20	EIXO ESTRIADO PARA HR 40 GROOVED SHAFT FOR HR 40
Z 27	EIXO ESTRIADO PARA HR 63 GROOVED SHAFT FOR HR 63

Comprimento = 300mm
 Length = 300 mm

