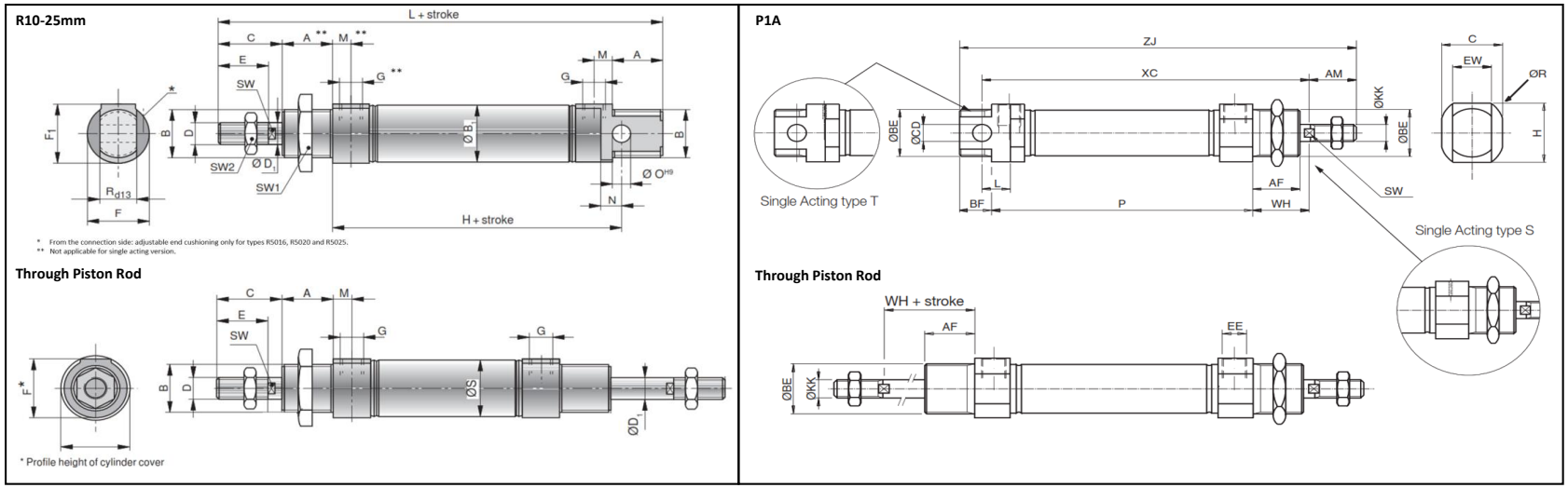
Dimensional Comparison R10-25mm vs P1A



Bore Ø	Piston Rod (mm)						End Covers (mm)															
	Thread		Length		Across Flats		Thread		Thread Length				Width		Height		Mounting Width		Pivot Hole			
									Front Cover		Rear Cover								Diameter		Position	
	R	P1A	R	P1A	R	P1A	R	P1A	R	P1A	R	P1A	R	P1A	R	P1A	R	P1A	R	P1A	R	P1A
	D	ØKK	E	AM0/-2	SW	SW	B	ØBE	A	AF	A	BF	F	C	F_1	H	R_{d13}	EW	ØO	ØCD H9	N	L
10	M4	M4	12	12	-	-	M12x1.25	M12x1.25	12	12	12	10	15	13	15	13,5	8	8	4	4	6	6
12	M6	M6	16	16	5	5	M16x1.50	M16x1.50	17	18	17	13	20	17,8	20	17,4	12	12	6	6	9	9
16 (1)	M6	M6	16	16	5	5	M16x1.50	M16x1.50	17	18	17	13	20	23,8	20	23,4	12	12	6	6	9	9
16 (2)	M6	M6	16	16	5	5	M16x1.50	M16x1.50	17	18	17	13	20	17,8	20	17,5	12	12	6	6	9	9
20 (1)	M8	M8	20	20	7	7	M22x1.50	M22x1.50	20	20	20	14	27	23,9	27	23,9	16	16	8	8	12	12
20 (2)	M8	M8	20	20	7	7	M22x1.50	M22x1.50	20	20	20	14	27	23,8	27	23,4	16	16	8	8	12	12
25 (1)	M10x1.25	M10x1.25	22	22	9	9	M22x1.50	M22x1.50	22	22	22	14	27	26,9	27	26,9	16	16	8	8	12	12
25 (2)	M10x1.25	M10x1.25	22	22	9	9	M22x1.50	M22x1.50	22	22	22	14	27	26,8	27	26,6	16	16	8	8	12	12

(1) Single Acting

(2) Double / Through Rod

For other non specified dimensions please refer to the appropriate technical catalogue.

Dimensional Comparison R10-25mm vs P1A

Bore Ø	Axial Dimensions (mm). All + stroke								Axial Dimensions (mm)		Connection	
	Overall Length		Pivot to Front Cover		Across End Covers		Pivot / Piston Thread		Front cover to Piston Thread		Port Thread	
	R	P1A	R	P1A	R	P1A	R	P1A	R	P1A	R	P1A
	L	ZJ	H	XC-WH	H-N	P	(H+A+C)-E	XC	(A+C)-E	$WH_{\pm 1.2}$	G	EE
10	84	84	48	48	42	46	64	64	16	16	M5	M5
12	101	99	53	53	44	48	75	75	22	22	M5	M5
16 (1)	111	***	60	***	51	***	82	***	22	22	M5	M5
16 (2)	111	104	60	60	51	53	82	82	22	22	M5	M5
20 (1)	130	***	71	***	59	***	95	***	24	24	G1/8	G1/8
20 (2)	130	125	71	71	59	67	95	95	24	24	G1/8	G1/8
25 (1)	141	***	76	***	64	***	104	***	28	28	G1/8	G1/8
25 (2)	141	132	76	76	64	68	104	104	28	28	G1/8	G1/8

(1) Single Acting

(2) Double / Through Rod

*** Refer to P1A Technical Catalogue

For other non specified dimensions please refer to the appropriate technical catalogue.

Technical Comparison - R10-25mm and P1A (ISO6432)

Specification	R10-25mm	P1A
Material / Finish		
End Covers	Aluminium	Aluminium (Black Anodised)
Barrel (Tube)	Stainless Steel (DIN X 5 CrNi 18 9)	Stainless Steel (DIN X 5 CrNi 18 10)
Piston Rod	Stainless Steel (DIN X 8 CrNi 18 9)	Stainless Steel (DIN X 10 CrNi 18 9)
Cushion Screw	Brass (CuZn39Pb3)	Stainless Steel (DIN X 10 CrNi 18 9)
Magnet	Magnetic Material	Plastic Coated Magnetic Material
Mounting Nut	Zinc Plated (DIN439-B A2K)	Stainless Steel (DIN X 5 CrNi 18 10)
Piston Rod Nut	Stainless Steel (DIN 439 B STST A2)	Stainless Steel (DIN X 5 CrNi 18 10)
Piston Rod Bearing	St + Sinterbronze + PTFE + Pb	Multilayer PTFE / Steel
Piston Complete:		
Standard Temperature	Nitrile Rubber (NBR) / Acetal Copolymer	Nitrile Rubber (NBR) / Steel
High Temperature	N/A	HNBR / Steel
Piston Rod Seal:		
Standard Temperature	Nitrile Rubber (NBR)	Nitrile Rubber (NBR)
High Temperature	N/A	Flourocarbon Rubber (FPM)
Temperature Range		
Standard Temperature	-10°C to +70°C	-20°C to +80°C
High Temperature	N/A	-10°C to +150°C (Bores 12-25mm)
Working Medium		
	Dry, filtered compressed air to ISO 8573-1 class 3.4.3.	
Variants		
Double Acting, Adjustable Cushioning (Magnetic)	Yes (Bores 16-25mm)	Yes (Bores 16-25mm)
Double Acting, Adjustable Cushioning (Non Magnetic)	Yes (Bores 16-25mm)	No
Double Acting, Non Adjustable Cushioning (Magnetic)	No	Yes
Double Acting, Adjustable Cushioning (Non Magnetic)	Yes	No
Double Acting, Through Piston Rod, Adjustable Cushioning (Magnetic)	No	Yes (Bores 16-25mm)
Double Acting, Through Piston Rod, Non Adjustable Cushioning (Magnetic)	Yes	Yes
Single Acting, Return Spring, Non Adjustable Cushioning (Magnetic)	No	Yes
Single Acting, Return Spring, Non Adjustable Cushioning (Non Magnetic)	Yes	No
Single Acting, Spring Extend, Non Adjustable Cushioning (Magnetic)	No	Yes (Bores 16-25mm)
ATEX	Yes	No