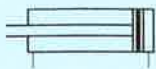


Double acting cylinder with elastic cushioning in end positions

Type DGS-12-...-P-A
DGS-16-...-P-A



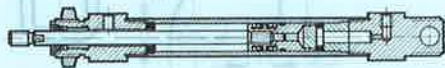
The cylinder piston is fitted with a permanent magnet, whose magnetic field is used to actuate reed type proximity switches.

Special designs:



Additional components (sheets 1.310, 1.320)

- Rod clevis, Type SG
- Rod eye, Type SGS
- Self-aligning rod coupler, Type FK



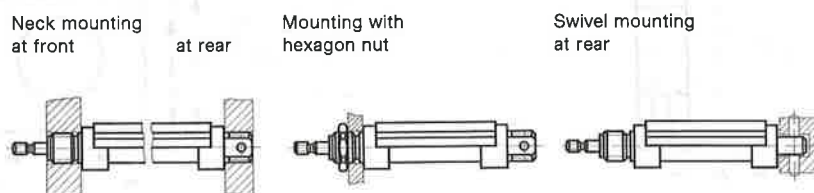
4

One or more proximity switches can be mounted to the cylinder by means of the DUO rail. These switches are used for non contact sensing of the end or intermediate positions of the cylinder.

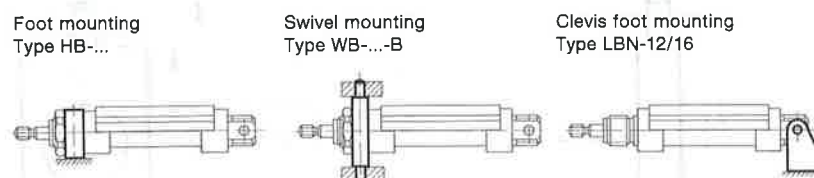
Proximity switches with pneumatic or electrical output signals have the same dimensions and can be combined on the DUO rail.

Proximity switches see sheet 1.350

Installation of basic cylinder without mounting attachments



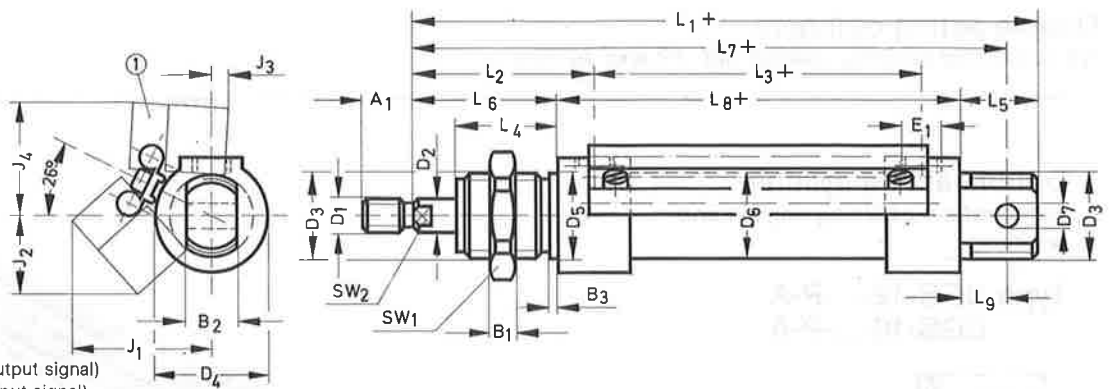
Other types of installation and additional mounting attachments



Order code (see overleaf)		Part No. + DGS + piston dia. + stroke length + cushioning + sensing + special design <i>Example: piston dia. 12 mm, stroke length 140 mm = 9315 DGS-12-140-P-A</i>			
Medium		Compressed air, filtered (lubricated or unlubricated)			
Design		Piston cylinder with magnetic piston			
Max. permissible operating pressure		10 bar			
Temperature range		-20 to +80° C (observe range of application of reed switches)			
Materials		Bearing cap and cover cap: anodized aluminium; cylinder barrel: brass, painted; piston rod: X 20 Cr 13, rolled thread; seals: perbunan			
Weights		See overleaf			
Piston dia.	Standard stroke lengths	Stroke length min. — max.	Thrust at 6 bar	Return force at 6 bar	Connection
mm	mm	mm	N (≈ kp)	N (≈ kp)	
12	10, 25, 40, 50, 80, 100, 140, 200	10 to 200	55 (5.5)	38 (3.8)	M 5
16	10, 25, 40, 50, 80, 100, 140, 200, 300	10 to 400	104 (10.4)	87 (8.7)	G 1/8

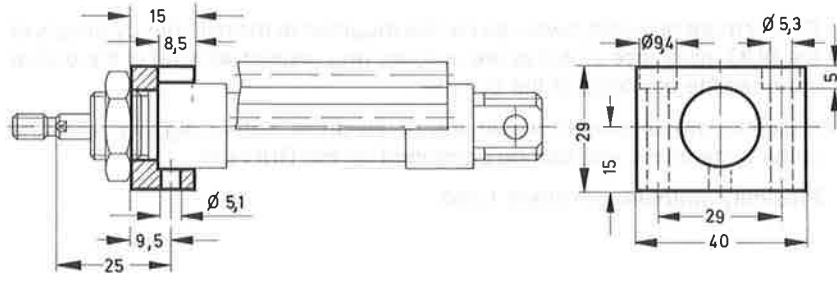
Type DGS-...-P-A

- ① Reed switch
 Type SMP-1 (pneumatic output signal)
 Type SME-1 (electrical output signal)
 + = Plus stroke length

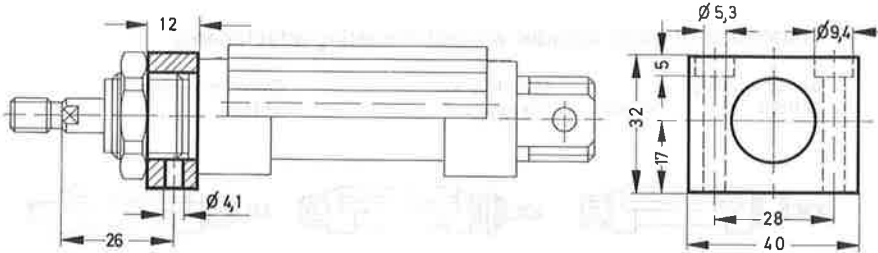


Additional mounting attachments

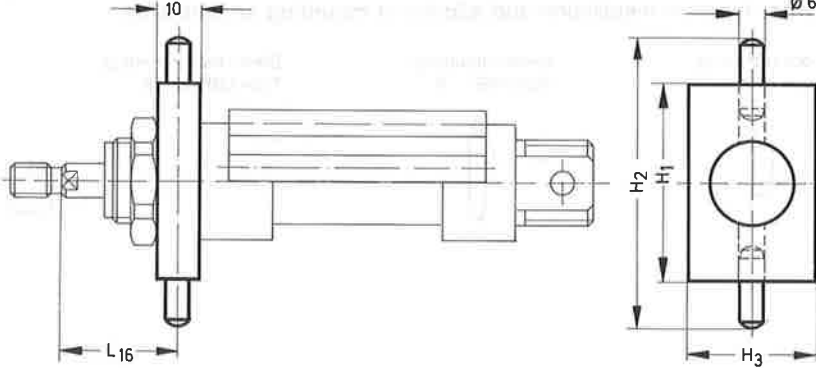
Foot mounting, Type HB-12 (1 foot)



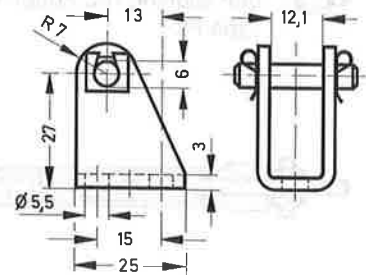
Foot mounting, Type HB-16 (1 foot)



Swivel mounting, Type WB-...-B (1 swivel flange with retaining ring)



Clevis foot mounting, Type LBN-12/16 with king pin



Piston dia. mm	A ₁	B ₁	B ₂	B ₃	D ₁	D ₂ dia.	D ₃		D ₄ dia.	D ₅ dia.	D ₆ dia.	D ₇ dia.	E ₁	H ₁	H ₂	H ₃
12	10	6	12	2	M 6	6	M 16 × 1.5		20	16	16	6	M 5	42	62	25
16	12	6	12	2	M 8	8	M 20 × 1.5		27	20	20	6	G ¹ / ₈	46	68	30
Piston dia. mm	J ₁	J ₂	J ₃	J ₄	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	L ₉	L ₁₆	SW ₁	SW ₂
12	29.5	20	7	25	134	32	78	16	16	24	128	94	10	19	24	5
16	33	18	3.5	26.5	151	40.5	84	22	18	32	144	101	11	27	27	7

Weights

Basic cylinder			Mounting attachments wt/kg		
Piston dia.	Type DGS-...	Weight per 10 mm of stroke	Type HB-...	Type WB-...	Type LBN-12/16
mm	Basic weight		Galvanized steel	Galvanized steel	Galvanized steel
12	0.184	0.011	0.085	0.070	0.040
16	0.257	0.015	0.070	0.100	

Cylinder series DGS-...-P-A

Order code						Order code						Order code					
Part No.	Type	Piston dia.	Stroke	End position cushioning	Special design	Part No.	Type	Piston dia.	Stroke	End position cushioning	Special design	Part No.	Type	Piston dia.	Stroke	End position cushioning	Special design
9309	DGS-	12-	10	-P-A		9325	DGS-	16-	10	-P-A							
9310	DGS-	12-	25	-P-A		9326	DGS-	16-	25	-P-A							
9311	DGS-	12-	40	-P-A		9327	DGS-	16-	40	-P-A							
9312	DGS-	12-	50	-P-A		9328	DGS-	16-	50	-P-A							
9313	DGS-	12-	80	-P-A		9329	DGS-	16-	80	-P-A							
9314	DGS-	12-	100	-P-A		9330	DGS-	16-	100	-P-A							
9315	DGS-	12-	140	-P-A		9331	DGS-	16-	140	-P-A							
9316	DGS-	12-	200	-P-A		9332	DGS-	16-	200	-P-A							
9308	DGS-	12-	...	-P-A		9333	DGS-	16-	300	-P-A							
	DGS-	12-	...	-P-A	-S...	9324	DGS-	16-	...	-P-A							
							DGS-	16-	...	-P-A	-S...						
Mounting attachments						Mounting attachments											
2681	HB-	12				2682	HB-	16									
9121	WB-	12-B				9122	WB-	16-B									
6058	LBN-	12/16				6058	LBN-	12/16									