

-I- Type discontinued
Available up until 2005

Round cylinders DSW/ESW

FESTO

To be replaced by
round cylinders DSNU/ESNU
→ 1 / 2.4-42




Technical specifications

- The Pneumatic Catalogue
on CD ROM
or
- www.festo.com

Specified types in accordance with
ATEX directive for potentially
explosive atmospheres

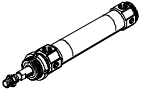
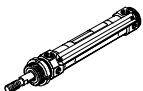
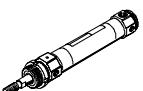
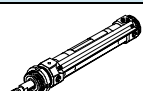
- www.festo.com/en/ex

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Product range overview

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Function	Design	Type	Piston \varnothing [mm]	Stroke [mm]	Cushioning		S3 Stainless steel piston rod	R3 High corrosion protection	→ Page	
					Not adjustable P	Adjustable PPV				
Double- acting	Without position sensing									
		DSW	32, 40, 50, 63	25, 40, 50, 80, 100, 160, 200, 300	10 ... 500	■	■	■	-	1 / 2.4-43
	With position sensing									
		DSW-...-A	32, 40, 50, 63	25, 40, 50, 80, 100, 160, 200, 300	10 ... 500	■	■	■	■	1 / 2.4-44
Single- acting	Without position sensing									
		ESW	32, 40, 50, 63	10, 25, 25	1 ... 50	■	-	-	-	1 / 2.4-45
	With position sensing									
		ESW-...-A	32, 40, 50, 63	10, 25, 25	10 ... 50	■	-	-	-	1 / 2.4-45

Cylinders with piston rods
Round cylinders



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Round cylinders DSW/ESW


Ordering data

DSW basic version without position sensing						
Type	Piston Ø [mm]	Stroke [mm]	Cushioning not adjustable at either end		Adjustable cushioning at both ends	
			Part No.	Type ¹⁾	Part No.	Type ¹⁾
	32	25	161 421	DSW-32-25-P-B	161 441	DSW-32-25-PPV-B
		40	161 422	DSW-32-40-P-B	161 442	DSW-32-40-PPV-B
		50	161 423	DSW-32-50-P-B	161 443	DSW-32-50-PPV-B
		80	161 424	DSW-32-80-P-B	161 444	DSW-32-80-PPV-B
		100	161 425	DSW-32-100-P-B	161 445	DSW-32-100-PPV-B
		160	161 426	DSW-32-160-P-B	161 446	DSW-32-160-PPV-B
		200	161 427	DSW-32-200-P-B	161 447	DSW-32-200-PPV-B
		300	161 428	DSW-32-300-P-B	161 448	DSW-32-300-PPV-B
	40	25	161 469	DSW-40-25-P-B	161 489	DSW-40-25-PPV-B
		40	161 470	DSW-40-40-P-B	161 490	DSW-40-40-PPV-B
		50	161 471	DSW-40-50-P-B	161 491	DSW-40-50-PPV-B
		80	161 472	DSW-40-80-P-B	161 492	DSW-40-80-PPV-B
		100	161 473	DSW-40-100-P-B	161 493	DSW-40-100-PPV-B
		160	161 474	DSW-40-160-P-B	161 494	DSW-40-160-PPV-B
		200	161 475	DSW-40-200-P-B	161 495	DSW-40-200-PPV-B
		300	161 476	DSW-40-300-P-B	161 496	DSW-40-300-PPV-B
	50	25	161 517	DSW-50-25-P-B	161 537	DSW-50-25-PPV-B
		40	161 518	DSW-50-40-P-B	161 538	DSW-50-40-PPV-B
		50	161 519	DSW-50-50-P-B	161 539	DSW-50-50-PPV-B
		80	161 520	DSW-50-80-P-B	161 540	DSW-50-80-PPV-B
		100	161 521	DSW-50-100-P-B	161 541	DSW-50-100-PPV-B
		160	161 522	DSW-50-160-P-B	161 542	DSW-50-160-PPV-B
		200	161 523	DSW-50-200-P-B	161 543	DSW-50-200-PPV-B
		300	161 524	DSW-50-300-P-B	161 544	DSW-50-300-PPV-B
	63	25	161 565	DSW-63-25-P-B	161 585	DSW-63-25-PPV-B
		40	161 566	DSW-63-40-P-B	161 586	DSW-63-40-PPV-B
		50	161 567	DSW-63-50-P-B	161 587	DSW-63-50-PPV-B
		80	161 568	DSW-63-80-P-B	161 588	DSW-63-80-PPV-B
100		161 569	DSW-63-100-P-B	161 589	DSW-63-100-PPV-B	
160		161 570	DSW-63-160-P-B	161 590	DSW-63-160-PPV-B	
200		161 571	DSW-63-200-P-B	161 591	DSW-63-200-PPV-B	
300		161 572	DSW-63-300-P-B	161 592	DSW-63-300-PPV-B	

1) Mounting nut on the bearing cap thread included in the scope of delivery.

DSW variants without position sensing						
Type	Piston Ø [mm]	Stroke [mm]	Cushioning not adjustable at either end		Adjustable cushioning at both ends	
			Part No.	Type ¹⁾	Part No.	Type ¹⁾
Variable stroke						
	32	10 ... 500	161 420	DSW-32-...-P-B	161 440	DSW-32-...-PPV-B
	40	10 ... 500	161 468	DSW-40-...-P-B	161 488	DSW-40-...-PPV-B
	50	10 ... 500	161 516	DSW-50-...-P-B	161 536	DSW-50-...-PPV-B
	63	10 ... 500	161 564	DSW-63-...-P-B	161 584	DSW-63-...-PPV-B
S3 – Stainless steel piston rod						
	32	10 ... 500	161 429	DSW-32-...-P-S3-B	161 449	DSW-32-...-PPV-S3-B
	40	10 ... 500	161 477	DSW-40-...-P-S3-B	161 497	DSW-40-...-PPV-S3-B
	50	10 ... 500	161 525	DSW-50-...-P-S3-B	161 545	DSW-50-...-PPV-S3-B
	63	10 ... 500	161 573	DSW-63-...-P-S3-B	161 593	DSW-63-...-PPV-S3-B


1) Mounting nut on the bearing cap thread included in the scope of delivery.

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Ordering data

DSW basic version with position sensing						
Type	Piston Ø [mm]	Stroke [mm]	Cushioning not adjustable at either end		Adjustable cushioning at both ends	
			Part No.	Type ¹⁾	Part No.	Type ¹⁾
	32	25	161 431	DSW-32-25-P-A-B	161 451	DSW-32-25-PPV-A-B
		40	161 432	DSW-32-40-P-A-B	161 452	DSW-32-40-PPV-A-B
		50	161 433	DSW-32-50-P-A-B	161 453	DSW-32-50-PPV-A-B
		80	161 434	DSW-32-80-P-A-B	161 454	DSW-32-80-PPV-A-B
		100	161 435	DSW-32-100-P-A-B	161 455	DSW-32-100-PPV-A-B
		160	161 436	DSW-32-160-P-A-B	161 456	DSW-32-160-PPV-A-B
		200	161 437	DSW-32-200-P-A-B	161 457	DSW-32-200-PPV-A-B
		300	161 438	DSW-32-300-P-A-B	161 458	DSW-32-300-PPV-A-B
	40	25	161 479	DSW-40-25-P-A-B	161 499	DSW-40-25-PPV-A-B
		40	161 480	DSW-40-40-P-A-B	161 500	DSW-40-40-PPV-A-B
		50	161 481	DSW-40-50-P-A-B	161 501	DSW-40-50-PPV-A-B
		80	161 482	DSW-40-80-P-A-B	161 502	DSW-40-80-PPV-A-B
		100	161 483	DSW-40-100-P-A-B	161 503	DSW-40-100-PPV-A-B
		160	161 484	DSW-40-160-P-A-B	161 504	DSW-40-160-PPV-A-B
		200	161 485	DSW-40-200-P-A-B	161 505	DSW-40-200-PPV-A-B
		300	161 486	DSW-40-300-P-A-B	161 506	DSW-40-300-PPV-A-B
	50	25	161 527	DSW-50-25-P-A-B	161 547	DSW-50-25-PPV-A-B
		40	161 528	DSW-50-40-P-A-B	161 548	DSW-50-40-PPV-A-B
		50	161 529	DSW-50-50-P-A-B	161 549	DSW-50-50-PPV-A-B
		80	161 530	DSW-50-80-P-A-B	161 550	DSW-50-80-PPV-A-B
		100	161 531	DSW-50-100-P-A-B	161 551	DSW-50-100-PPV-A-B
		160	161 532	DSW-50-160-P-A-B	161 552	DSW-50-160-PPV-A-B
		200	161 533	DSW-50-200-P-A-B	161 553	DSW-50-200-PPV-A-B
		300	161 534	DSW-50-300-P-A-B	161 554	DSW-50-300-PPV-A-B
	63	25	161 575	DSW-63-25-P-A-B	161 595	DSW-63-25-PPV-A-B
		40	161 576	DSW-63-40-P-A-B	161 596	DSW-63-40-PPV-A-B
		50	161 577	DSW-63-50-P-A-B	161 597	DSW-63-50-PPV-A-B
		80	161 578	DSW-63-80-P-A-B	161 598	DSW-63-80-PPV-A-B
100		161 579	DSW-63-100-P-A-B	161 599	DSW-63-100-PPV-A-B	
160		161 580	DSW-63-160-P-A-B	161 600	DSW-63-160-PPV-A-B	
200		161 581	DSW-63-200-P-A-B	161 601	DSW-63-200-PPV-A-B	
300		161 582	DSW-63-300-P-A-B	161 602	DSW-63-300-PPV-A-B	

1) Mounting nut on the bearing cap thread included in the scope of delivery.


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Ordering data


DSW variants with position sensing						
Type	Piston Ø [mm]	Stroke [mm]	Cushioning not adjustable at either end		Adjustable cushioning at both ends	
			Part No.	Type ¹⁾	Part No.	Type ¹⁾
Variable stroke						
	32	10 ... 500	161 430	DSW-32-...-P-A-B	161 450	DSW-32-...-PPV-A-B
	40	10 ... 500	161 478	DSW-40-...-P-A-B	161 498	DSW-40-...-PPV-A-B
	50	10 ... 500	161 526	DSW-50-...-P-A-B	161 546	DSW-50-...-PPV-A-B
	63	10 ... 500	161 574	DSW-63-...-P-A-B	161 594	DSW-63-...-PPV-A-B
S3 – Stainless steel piston rod						
	32	10 ... 500	161 439	DSW-32-...-P-A-S3-B	161 459	DSW-32-...-PPV-A-S3-B
	40	10 ... 500	161 487	DSW-40-...-P-A-S3-B	161 507	DSW-40-...-PPV-A-S3-B
	50	10 ... 500	161 535	DSW-50-...-P-A-S3-B	161 555	DSW-50-...-PPV-A-S3-B
	63	10 ... 500	161 583	DSW-63-...-P-A-S3-B	161 603	DSW-63-...-PPV-A-S3-B
R3 – High corrosion protection						
	32	10 ... 500	176 893	DSW-32-...-P-A-R3-B ²⁾	176 897	DSW-32-...-PPV-A-R3-B ²⁾
	40	10 ... 500	176 894	DSW-40-...-P-A-R3-B ²⁾	176 898	DSW-40-...-PPV-A-R3-B ²⁾
	50	10 ... 500	176 895	DSW-50-...-P-A-R3-B ²⁾	176 899	DSW-50-...-PPV-A-R3-B ²⁾
	63	10 ... 500	176 896	DSW-63-...-P-A-R3-B ²⁾	176 900	DSW-63-...-PPV-A-R3-B ²⁾

1) Mounting nut on the bearing cap thread included in the scope of delivery.

2) The scope of delivery also includes a hexagonal nut for the piston rod thread. The DUO rail for mounting proximity sensors is not used with this variant. The CRSME0-4 or SME0-4 proximity sensors may be used.

ESW basic version						
Type	Piston Ø [mm]	Stroke [mm]	Without position sensing		With position sensing	
			Part No.	Type ¹⁾	Part No.	Type ¹⁾
	32	10	161 461	ESW-32-10-P-B	161 465	ESW-32-10-P-A-B
		25	161 462	ESW-32-25-P-B	161 466	ESW-32-25-P-A-B
		50	161 463	ESW-32-50-P-B	161 467	ESW-32-50-P-A-B
	40	10	161 509	ESW-40-10-P-B	161 513	ESW-40-10-P-A-B
		25	161 510	ESW-40-25-P-B	161 514	ESW-40-25-P-A-B
		50	161 511	ESW-40-50-P-B	161 515	ESW-40-50-P-A-B
	50	10	161 557	ESW-50-10-P-B	161 561	ESW-50-10-P-A-B
		25	161 558	ESW-50-25-P-B	161 562	ESW-50-25-P-A-B
		50	161 559	ESW-50-50-P-B	161 563	ESW-50-50-P-A-B
	63	10	161 605	ESW-63-10-P-B	161 609	ESW-63-10-P-A-B
		25	161 606	ESW-63-25-P-B	161 610	ESW-63-25-P-A-B
		50	161 607	ESW-63-50-P-B	161 611	ESW-63-50-P-A-B

1) Mounting nut on the bearing cap thread included in the scope of delivery.

ESW variants						
Type	Piston Ø [mm]	Without position sensing			With position sensing	
		Stroke [mm]	Part No.	Type ¹⁾	Stroke [mm]	Part No. Type ¹⁾
Variable stroke						
	32	1 ... 50	161 460	ESW-32-...-P-B	10 ... 50	161 464 ESW-32-...-P-A-B
	40	1 ... 50	161 508	ESW-40-...-P-B	10 ... 50	161 512 ESW-40-...-P-A-B
	50	1 ... 50	161 556	ESW-50-...-P-B	10 ... 50	161 560 ESW-50-...-P-A-B
	63	1 ... 50	161 604	ESW-63-...-P-B	10 ... 50	161 608 ESW-63-...-P-A-B

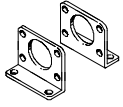

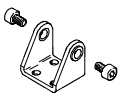





1) Mounting nut on the bearing cap thread included in the scope of delivery.

Do not use for new designs!
 Type discontinued, SBS

Round cylinders DSW/ESW

Accessories

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Ordering data					
Designation	for Ø [mm]	Basic version		High corrosion protection	
		Part No.	Type	Part No.	Type
Foot mounting HBN/CRH					
	32	195 851	HBN-32x2	162 951	CRH-32
	40	195 852	HBN-40x2	162 952	CRH-40
	50	195 853	HBN-50x2	162 953	CRH-50
	63	195 854	HBN-63x2	162 954	CRH-63
Flange mounting FBN/CRFV					
	32	195 855	FBN-32	161 858	CRFV-32
	40	195 856	FBN-40	161 859	CRFV-40
	50	195 857	FBN-50	161 860	CRFV-50
	63	195 858	FBN-63	161 861	CRFV-63
Clevis foot SBS/CRSBS					
	32	161 612	SBS-32-B 	162 955	CRSBS-32
	40	161 613	SBS-40-B 	162 956	CRSBS-40
	50	161 614	SBS-50-B 	162 957	CRSBS-50
	63	161 615	SBS-63-B 	162 958	CRSBS-63
Pivot pin GBS/CRGBS					
	32	9 236	GBS-32	163 132	CRGBS-32
	40	9 237	GBS-40	163 133	CRGBS-40
	50	9 238	GBS-50	163 134	CRGBS-50
	63	9 239	GBS-63	163 135	CRGBS-63