

Series variation



Compact cylinder SSD2 Series

●: Standard ○: Available △: Consult CKD ■: Not available

SCP*3
CMK2
CMA2
SCM
SCG
SCA2
SCS2
CKV2
CAV2/ COVPIN2
SSD2
SSG
SSD
CAT
MDC2
MVC
SMG
MSD/ MSDG
FC*
STK
SRL3
SRG3
SRM3
SRT3
MRL2
MRG2
SM-25
ShkAbs
FJ
FK
Spd Contr
Ending

Variation	Model No.	Bore size (mm)	Standard stroke (mm)																								Min. stroke Max. stroke Custom stroke (mm)(mm)(mm)	Rod end male thread Copper and PTFE free Unit for custom stroke N P6 S	Option					Mounting bracket			Switch	Page
																													Foot	Clevis bracket	Rod side flange	Head side flange						
			5	10	15	20	25	30	35	40	45	50	70	75	100	125	150	175	200	250	300	LB	CB	FA	FB													
Double acting/ single rod with switch	SSD2 SSD2-L SSD2 Large bore size	ø12/ø16	●	●	●	●	●	●																		30												
		ø20/ø25	●	●	●	●	●	●	●	●	●	●														50	○	●	○	○	○	○	○			752		
		ø32/ø40	●	●	●	●	●	●	●	●	●	●			●	●										100	1	○		○	○	○	○	○		Avail.		
		ø50/ø63/ø80/ø100		●	●	●	●	●	●	●	●	●			●	●													○ Note									
		ø125/ø140/ø160/ø180/ø200	●		●		●		●		●				●	●	●	●	●	●	●	●				300	○	○	●							768		
Double acting/ single rod/high load with switch	SSD2-K SSD2-KL	ø12/ø16	●	●	●	●	●	●																		30		●										
		ø20/ø25	●	●	●	●	●	●	●	●	●	●														50	○	○	○	○	○	○	○		Avail.			
		ø32/ø40	●	●	●	●	●	●	●	●	●	●			●	●										100		○		○	○	○	○					
		ø50/ø63/ø80/ø100		●	●	●	●	●	●	●	●	●			●	●																						
Double acting/ single rod/long stroke with switch	SSD2 SSD2-L	ø12/ø16								●	●	●													31	100		●										
		ø20													●	●	●	●	●	●					200	1	○			○	○	○	○		Avail.			
		ø25													●	●	●	●	●	●	●	●			300		○											
		ø32/ø40/ø50/ø63/ø80/ø100														●	●	●	●	●	●	●	●		101													
Single acting/push with switch	SSD2-X SSD2-XL	ø12/ø16/ø20/ø25/ø32/ø40	●	●																					10	-	○	●		○	○	○	○		Avail.			
		ø50		●		●																			20		○	●		○	○	○	○					
Single acting/pull with switch	SSD2-Y SSD2-YL	ø12/ø16/ø20/ø25/ø32/ø40	●	●																					10	-	○	●		○	○	○	○		Avail.			
		ø50		●		●																			20		○	●		○	○	○	○					
Double acting/ heat resistant	SSD2-T1	ø12/ø16	●	●	●	●	●	●																		30												
		ø20/ø25	●	●	●	●	●	●	●	●	●	●														50	1	○			○	○	○	○		820		
		ø32/ø40	●	●	●	●	●	●	●	●	●	●			●	●										100												
		ø50/ø63/ø80/ø100		●	●	●	●	●	●	●	●	●			●	●																						
Double acting/with heat resistant cylinder switch	SSD2-T1L	ø16		●	●	●	●	●																		30												
		ø20/ø25			●	●	●	●	●	●	●	●														50	1	○			○	○	○	○		Avail.		
		ø32/ø40			●	●	●	●	●	●	●	●			●											100												
		ø50/ø63			●	●	●	●	●	●	●	●			●																							
Double acting/high load/rubber-air cushioned with switch	SSD2-K-*C SSD2-KL-*C	ø20/ø25	●	●	●	●	●	●	●	●	●	●													50	1	○				○	○	○	○		Avail.		
		ø32/ø40	●	●	●	●	●	●	●	●	●	●			●	●										100						○	○	○	○			
		ø50/ø63/ø80/ø100		●	●	●	●	●	●	●	●	●			●	●																						
Double acting/position locking/switch	SSD2-Q SSD2-QL	ø20·ø25/ø32/ø40/ø50/ø63	●	●	●	●							●	●											10	100	-	○			○	○	○	○		Avail.		
		ø80/ø100				●								●	●											25												
Double acting/fine speed with switch	SSD2-F SSD2-LF SSD2-KF SSD2-KLF	ø12/ø16	●	●	●	●	●	●																		30												
		ø20/ø25	●	●	●	●	●	●	●	●	●	●														50	1	○				○	○	○	○		Avail.	
		ø32/ø40	●	●	●	●	●	●	●	●	●	●			●	●										100												
		ø50/ø63/ø80/ø100		●	●	●	●	●	●	●	●	●			●	●																						
Double acting/low speed with switch	SSD2-O SSD2-OL	ø12/ø16	●	●	●	●	●	●																		30												
		ø20/ø25	●	●	●	●	●	●	●	●	●	●														50	1	○				○	○	○	○		Avail.	
		ø32/ø40	●	●	●	●	●	●	●	●	●	●			●	●										100												
		ø50/ø63/ø80/ø100		●	●	●	●	●	●	●	●	●			●	●																						
Double acting/ high load/low friction with switch	SSD2-KU SSD2-KUL	ø20/ø25	●	●	●	●	●	●	●	●	●														50													
		ø32/ø40	●	●	●	●	●	●	●	●	●	●			●	●										100	1	○				○	○	○	○		Avail.	
		ø50/ø63/ø80/ø100		●	●	●	●	●	●	●	●	●			●	●																						

Variation	Model No.	Bore size (mm)	Standard stroke (mm)																										Min. stroke (mm)	Max. stroke (mm)	Custom stroke (mm)	Option		Mounting bracket					Switch	Page																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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			N	P6	LB	CB	FA	FB																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Double acting/ double rod with switch	SSD2-D SSD2-DL SSD2-D Large bore size	ø12/ø16	●	●				●																					30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

SCP*3	Variation and option combination selection table												
CMK2	SSD2 (ø100 or less)												
	●: Standard ◎: Option ○: Available (made-to-order product) △: Available depending on conditions (Consult with CKD) x: Not available												
CMA2	Category		Category	Variation									
SCM				Double acting basic	High load	Single acting push	Single acting pull	Double acting double rod	Back to back	Two-stage	With position locking	Rotation-stop	Heat resistant 150°C
SCG	Variation		Code	None	K	X	Y	D	B	W	Q	M	T1
SCA2			Blank										
SCS2		Double acting basic	Blank										
CKV2		High load	K			x	x	△	○	△	△	○	x
		Single acting push	X				x	△	○	x	x	△	x
CAV2/ COVPIN2		Single acting pull	Y					△	○	x	x	△	x
		Double acting double rod	D						x	x	△	○	○
SSD2		Back to back	B							x	○	○	○
		Two-stage	W								x	○	○
SSG		With position locking	Q									△	x
		Rotation-stop	M										x
SSD		Heat resistant (150 °C)	T1										
		Low speed	O										
CAT		Low friction	KU										
		With rubber scraper	G										
MDC2		With metal scraper	G1										
		With coolant proof scraper (for general use)	G2										
MVC		With coolant proof scraper (for chlorine fluid)	G3										
		Anti-spatter adherence	G4										
SMG		With cylinder switch	L										
		With cylinder switch (for strong magnetic field proof)	L4										
MSD/ MSDG		With cylinder switch (for heat resistance)	T1L										
		Fine speed	F										
FC*	Piping	NPT(ø32 to ø100)	N										
		G(ø32 to ø100)	G										
STK	Option												
		Piston rod material stainless steel (including C-ring)	M										
SRL3		Piston rod end male thread	N										
		Clean-room specifications/copper and PTFE free (exhaust port)	P5										
SRG3		Clean-room specifications/copper and PTFE free (vacuum treatment)	P51										
		Copper and PTFE free	P6										
SRM3		Clean-room specifications (exhaust port)	P7										
		Clean-room specifications (vacuum treatment)	P71										
SRT3		Specify piston rod end form	N**										
		Specified rod nut quantity (male thread only)	A()										
MRL2	Accessory												
		Cylinder switch	Listed separately	◎	◎	◎	◎	◎	◎	◎	◎	◎	x
MRG2		Rod eye (male thread only)	I	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎
		Rod clevis (male thread only)	Y	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎
SM-25		Mounting bracket LB with bolt	LB	◎	◎	◎	◎	◎	△	△	◎	◎	◎
		Mounting bracket CB with bolt/pin	CB	◎	◎	◎	◎	x	x	△	◎	◎	◎
ShkAbs		Mounting bracket FA with bolt	FA	◎	◎	◎	◎	◎	△	△	◎	◎	◎
		Mounting bracket FB with bolt	FB	◎	◎	◎	◎	x	x	△	◎	◎	◎
FJ		Mounting bolt	Listed separately	◎	◎	◎	◎	◎	x	x	◎	◎	◎
FK	Caution												
	*1. Only ø12 to ø25 are P6 as standard. ø32 to ø63 are not available.												
	*2. When "G2" or "G3" is selected, the material for the piston rod and C-ring is stainless steel. M code is not required.												
Spd Contr	*3. Piston rod and C-ring of female thread of "P5", "P51", "P7" and "P71" are stainless steel. M code is not required. For stainless steel male thread rod nut, combination with M is required.												
	*4. P6 specifications even without code.												
Ending													

	Variation											Port thread		Option									
	Low speed	Low friction	Rubber scraper	Metal scraper	Coolant proof scraper	Coolant proof scraper	Anti-spatter adherence	With switch	Strong magnetic field proof with switch	Heat resistant with switch	Fine speed	NPT	G		Stainless steel PR	Male thread PR end	Clean-room specifications (exhaust port)	Clean-room specifications (vacuum treatment)	Copper and PTFE free	Clean-room specifications (exhaust port)	Clean-room specifications (vacuum treatment)	Specified PR end	Specified rod nut quantity
	O	KU	G	G1	G2	G3	G4	L	L4	T1L	F	N	G		M	N	P5	P51	P6	P7	P71	N*	A()
	○	○	○	○	○	○	○	○	○	x	○	○	○		◎	◎	○	○	*7	◎	◎	○	○
	○	x	△	△	△	△	△	◎	○	x	x	○	○		◎	◎	x	x	*4	x	x	○	○
	x	x	△	△	△	△	△	◎	○	x	x	○	○		◎	◎	x	x	*4	x	x	△	○
	○	x	○	○	○	○	○	◎	○	○	○	○	○		◎	◎	○	○	*7	○	○	○	○
	○	○	○	○	○	○	○	◎	○	○	○	○	○		◎	◎	○	○	○	○	○	○	○
	○	x	△	△	△	△	△	◎	○	○	○	○	○		◎	◎	△	△	*8	△	△	○	○
	△	x	△	△	△	△	△	◎	○	△	△	○	○		△	◎	△	△	*8	△	△	○	○
	○	x	x	x	x	x	x	◎	○	x	○	○	○		◎	◎	△	△	*1	△	△	○	○
	x	x	x	○	x	x	x	x	x	x	x	○	○		◎	◎	x	x	x	△	△	○	○
		x	x	x	x	x	x	◎	○	x	x	○	○		◎	◎	x	x	x	○	○	○	○
			x	x	x	x	x	◎	◎	x	x	○	○		○	◎	x	x	x	x	x	○	○
				x	x	x	x	○	○	x	x	○	○		○	○	x	x	○	x	x	○	○
					x	x	x	◎	○	x	x	○	○		○	○	x	x	x	x	x	○	○
						x	x	◎	x	x	x	○	○		*2	◎	x	x	○	x	x	○	○
							x	◎	x	x	x	○	○		*2	◎	x	x	○	x	x	○	○
								○	○	x	x	○	○		○	○	x	x	x	x	x	○	○
									x	x	○	○	○		◎	◎	○	○	◎	◎	◎	○	○
										x	○	○	○		○	◎	○	○	○	○	○	○	○
											x	○	○		○	◎	x	x	x	△	△	○	○
												○	○	x	○	◎	x	x	○	○	○	○	○
													x		○	○	○	○	○	○	○	○	○
															○	○	○	○	○	○	○	○	○
																	○	○	○	○	○	○	○
																◎	*3	*3	○	*3	*3	○	○
																	○	○	◎	◎	◎	○	○
																		x	*5	*5	x	○	○
																			*5	x	*5	○	○
																				*5	*5	○	○
																					x	○	○
																						○	○
																						○	○
	◎		◎	◎	◎	◎	◎	◎	◎	◎	◎	○	○		◎	◎	○	○	◎	◎	◎	○	○
	◎		◎	◎	△	△	◎	◎	◎	◎	◎	○	○		△	◎	x	x	◎	x	x	△	○
	◎		◎	◎	△	△	◎	◎	◎	◎	◎	○	○		△	◎	x	x	◎	x	x	△	○
	◎		△	△	△	△	△	◎	◎	◎	◎	○	○		△	◎	△	△	◎	△	△	○	○
	◎		◎	◎	◎	◎	◎	◎	◎	◎	◎	○	○		△	◎	x	x	◎	x	x	○	○
	◎		△	△	△	△	△	◎	◎	◎	◎	○	○		△	◎	△	△	◎	△	△	○	○
	◎		◎	◎	◎	◎	◎	◎	◎	◎	◎	○	○		△	◎	△	△	◎	△	△	○	○
	◎		◎	◎	△	△	◎	◎	◎	◎	◎	○	○		△	◎	△	△	◎	△	△	○	○

*5. "P5" and "P51" (clean-room specifications/copper and PTFE free) have properties of both "P6" (copper and PTFE free) and "P7", "P71" (clean-room specifications).

*6. P6 is standard for ø12 and ø16 and optional for ø25 to ø100.

*7. P6 is standard for ø12 to ø50 and optional for ø63 to ø100.

*8. P6 is standard for ø12 to ø50 and available as made to order for ø63 to ø100.

SCP*3
CMK2
CMA2
SCM
SCG
SCA2
SCS2
CKV2
CAV2/COVP/IN2
SSD2
SSG
SSD
CAT
MDC2
MVC
SMG
MSD/MSDG
FC*
STK
SRL3
SRG3
SRM3
SRT3
MRL2
MRG2
SM-25
ShkAbs
FJ
FK
Spd Contr
Ending