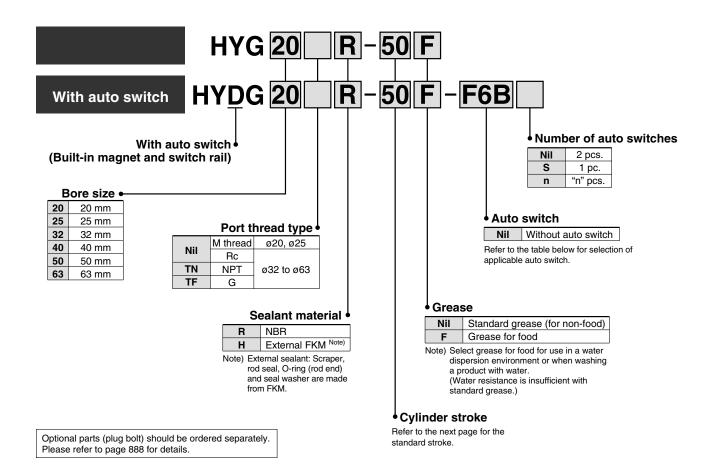
Hygienic Design Cylinder Series HYG Ø20, Ø25, Ø32, Ø40, Ø50, Ø63

How to Order



Applicable Auto Switches/Refer to page 1312 for detailed auto switch specifications.												
	Electrical entry	Indicator light	Wiring (Output)	Load voltage			Lead wire length (m)*			Dua suina d		
Туре				D	С	Auto switch model	0.5 (Nil)	3 (L)	5 (Z)	Pre-wired connector	Applicable load	
0 " 1	Grommet	et Yes	3-wire (NPN)		5 V 12 V	F6N	•	•	0	0	IC circuit	
Solid state switch			3-wire (PNP)	24 V		F6P	•	•	0	0		Relay, PLC
SWILCH			2-wire		12 V	F6B	•	•	0	0		

* Lead wire length symbols 0.5 m.....Nil (Example) F6B 3 m....L (Example) F6BL 3 m..... <u>L</u> 5 m..... Z (Example) F6BZ * Auto switches marked with a "O" symbol are produced upon receipt of orders.

- Refer to pages 1328 and 1329 for detailed specifications about the auto switch with pre-wired connector.
- * Auto switch is shipped not assembled with the cylinder.



Technical

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Specifications

Bore size (mm)	20	25	32	40	50	63		
Action			Double	acting				
Fluid			Д	ir				
Minimum operating pressure	0.2 l	MPa	0.15 MPa					
Maximum operating pressure	1.0 MPa							
Proof pressure	1.5 MPa							
Ambient and operating fluid temperature	0°C to 60°C							
Lubrication	Not required							
Piston speed	50 to 500 mm/s (With pressure at 1.0 MPa) Note)							
Cushion	Rubber bumper							
Stroke length tolerance	+1.5 mm							

Note) Use a cylinder below the allowable kinetic energy. Refer to page 877 for the allowable kinetic energy.

Standard Stroke

Bore size (mm)	Standard stroke (mm)
20	20, 30, 50, 100, 150, 200
25	20, 30, 50, 100, 150, 200
32	25, 50, 100, 150, 200
40	25, 50, 100, 150, 200
50	25, 50, 100, 150, 200
63	25, 50, 100, 150, 200

* Manufacture of Intermediate Stroke Intermediate strokes of 1 mm each can be produced by using spacers with standard stroke cylinders. However, intermediate strokes of 5 mm each can be produced about ø40 to 63.

Example) HYG32R-57 mounts a 43mm spacer in standard stroke cylinder HYG32R-100.

Theoretical Output

Unit: N							
Bore size	Operating	Operating pressure (MPa)					
(mm)	direction	0.3	0.5	0.7			
20	IN	71	118	165			
20	OUT	94	157	220			
25	IN	113	189	265			
25	OUT	147	246	344			
32	IN	181	302	422			
32	OUT	241	402	563			
40	IN	317	528	739			
40	OUT	377	629	880			
50	IN	495	825	739 880 1154			
30	OUT	589	982	1374			
63	IN	841	1402	1962			
03	OUT	935	1559	2182			

Mass

Without auto switch Unit: kg										
Bore size	Stroke (mm)									
(mm)	20	25	30	50	100	150	200			
20	0.77	_	0.86	1.10	1.68	2.24	2.42			
25	1.17	_	1.29	1.61	2.40	3.15	3.43			
32	_	2.04	_	2.56	3.61	4.59	5.43			
40	_	2.31	_	2.90	4.12	5.23	6.17			
50	_	3.79	_	4.64	6.43	8.04	9.41			
63	_	4.71	_	5.74	7.95	9.92	11.56			

With auto switch (Built-in magnet and switch rail) Unit: kg									
Bore size	Stroke (mm)								
(mm)	20	25	30	50	100	150	200		
20	0.80	_	0.89	1.12	1.71	2.26	2.45		
25	1.19	_	1.32	1.63	2.43	3.18	3.47		
32	_	2.07	_	2.60	3.66	4.66	5.51		
40	_	2.35	_	2.94	4.96	5.30	6.25		
50	_	3.83	_	4.68	6.48	8.11	9.49		
63	_	4.75	_	5.79	8.01	9.99	11.65		