

NEW

Heat resisting compact hydraulic cylinder.

HRST1 series

New models are added to Compact Hydraulic Cylinder lineup featuring "high heat resistance"



Standard type
MAX. 150°C



Switch set
MAX. 130°C



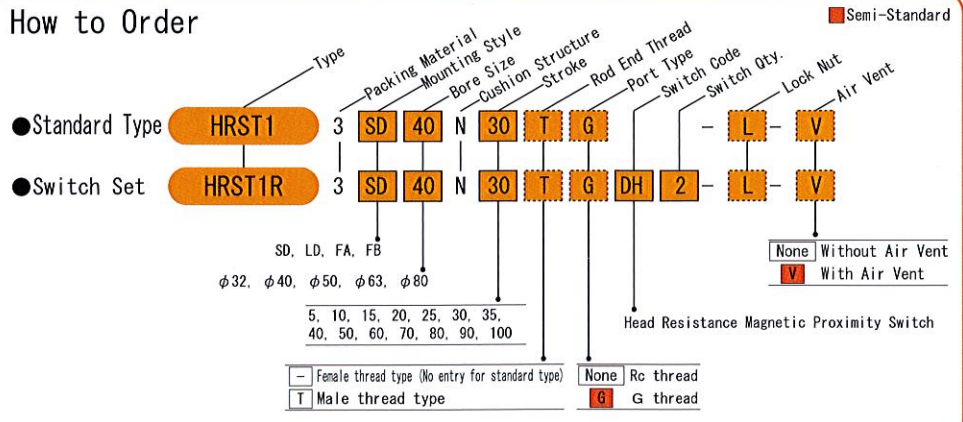
FEATURES

- Standard type can be used under ambient temperature up to 150 Celsius. And Switch Set type can be used with heat resisting switch under ambient temperature up to 130 Celsius.
- Full line with various bore sizes ($\phi 32$ to $\phi 80$), and various mounting style such as Front Flange, Rear Flange, Foot, etc.
- Installation pitch is same to 160S-1 Series. (But total length +10mm)
- Gland bushing has been adopted the specific copper alloy, and seal material has been adopted the fluorinated seal.
- Suitable for resin molding, diecasting, and various casting machine.

Specification

Type	Standard Type	Switch Set
Series	HRST1	HRST1R
Bore Sizes (mm)	$\phi 32 \cdot \phi 40 \cdot \phi 50 \cdot \phi 63 \cdot \phi 80$	
Operating Pressure	16MPa	
Proof Pressure	24MPa	
Min. Operation Pressure	0.3MPa	
Operating Speed Range	1~100mm/s	
Ambient Temperature	-10~+150°C	-10~+130°C
Cushion Structure	Without Cushion	
Working Fluid	Petroleum-based fluid · Phosphate Ester Fluid	
Packing Material	Fluorinated Sliding Ring+Fluorinated O-Ring	
Mounting Style	SD · LD · FA · FB	

How to Order

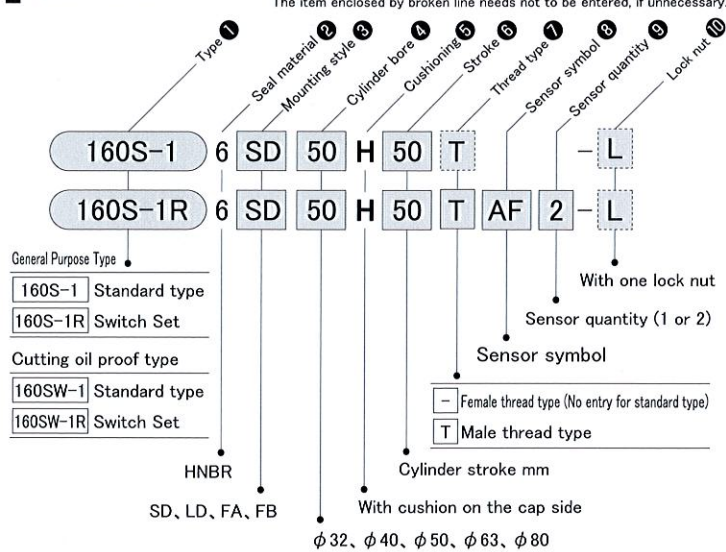


Head Resistance Magnetic Proximity Switch



Switch Code	SW013
Load Voltage Range	AC120V or less DC30V or less
Load Current Range	AC20mA or less DC40mA or less
Max. Open/Close Capacity	AC2VA DC1.5W
Ambient Temperature	-10~+130°C
Wiring Method	0.3mm ² 2-Wires Dia. $\phi 3.9$ Heat Resisting Silicon Cable Cord
Protective Circuit	IP67 (IEC Standard)
Indicating Lamp	JIS C0920 (Dust & Water Resistance) Without Lamp

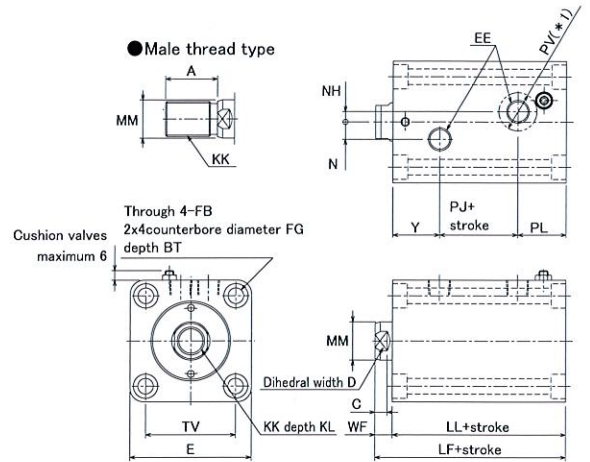
How to order



★ For other details, please inquire with us.

Dimensional outline drawing/SD (standard type)

160S-1 6 SD [Bore] H [Stroke] [Thread type]



Dimensional Table

Symbol Bore	A	BT	C	D	E	EE	FB	FG	KK		KL	LF	LL	MM
									Female thread type	Male thread type				
φ 32	25(40)	6.5	7	14	□62	Rc1/4	φ 6.6	φ 11	M12 × 1.75	M16 × 1.5	15	84	74	φ 18
φ 40	30(45)	8.6	7	19	□70	Rc1/4	φ 9	φ 14	M16 × 2	M20 × 1.5	20	85	75	φ 22
φ 50	35(50)	10.8	8	24	□80	Rc1/4	φ 11	φ 17.5	M20 × 2.5	M24 × 1.5	24	91	80	φ 28
φ 63	45(60)	13.0	9	30	□94	Rc1/4	φ 14	φ 20	M27 × 3	M30 × 1.5	33	100	87	φ 36
φ 80	60(80)	15.2	14	41	□114	Rc3/8	φ 16	φ 23	M30 × 3.5	M39 × 1.5	36	115	98	φ 45

Symbol Bore	N	NH	PJ	PL	PV(※1)	TV	WF	Y
φ 32	10	6	18	28	φ 22	□47	10	28
φ 40	10	6	20	28	φ 22	□52	10	27
φ 50	10	8	22	30	φ 22	□58	11	28
φ 63	10	10	27	30	φ 22	□69	13	30
φ 80	15	15	27.5	35.5	φ 27	□86	17	35

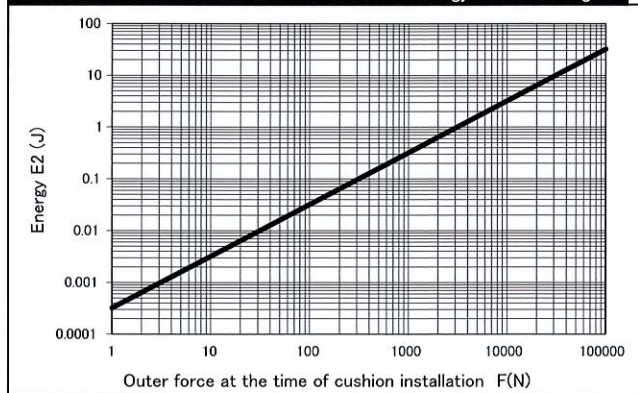
<Note>

- External dimensions are for standard type SD. Please visit TAIYO home page for the details regarding other supported types, and dimensions of other switch sets etc. <<http://taiyo-ltd.co.jp>>
- PV (* 1) Make sure that the piping material does not protrude beyond dimensions range. Cushion adjustment may not be possible in such a case.

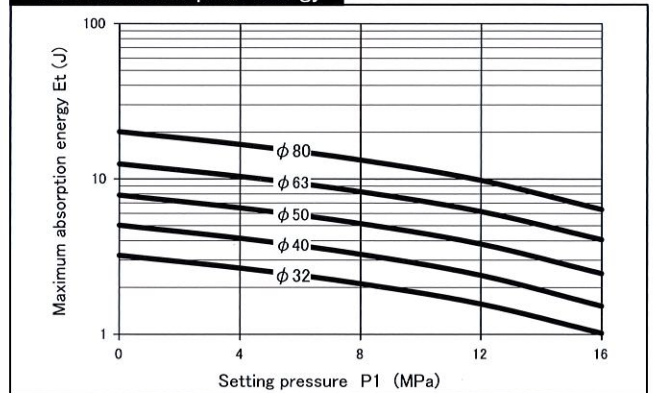
Data-Maximum absorption energy of the cylinder cushion

$$\text{Inertial energy of the load at the time of cushion installation } E_1 + \text{Energy generated as per the outer force which is received by the cylinder at the time of cushion installation } E_2 \leq \text{Maximum absorption energy of the cylinder cushion } E_t$$

External force at the time of cushion installation - energy conversion diagram



Maximum absorption energy



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