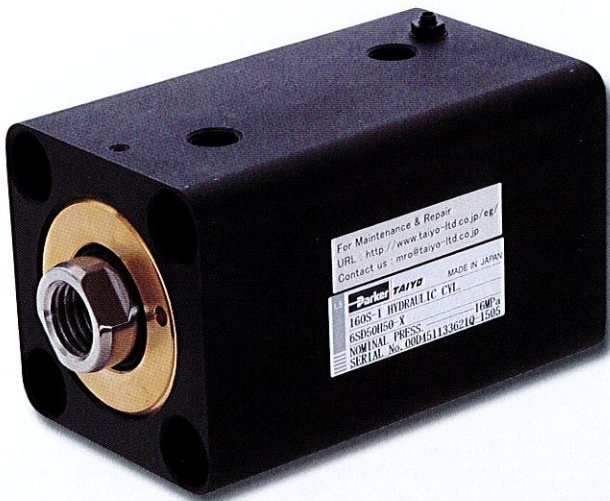


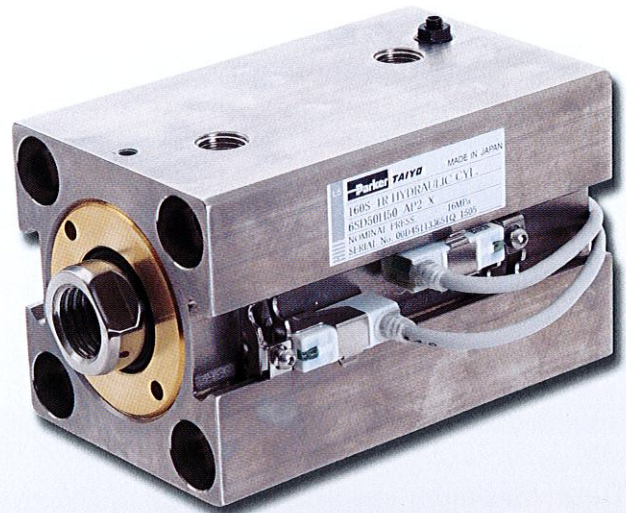
Now with cushion !

160S-1 Variation UP

“Head-side cushion specifications”



Standard type



Switch set

- Shock at the time of stopping is reduced due to cushion mechanism.
- Based on usage conditions, cushion adjustment can be done using cushion valve.
- Speed Up is possible for return direction, thus improving cycle time.
- Installation space is just 20 mm more than the non-cushion type.

Standard Specifications

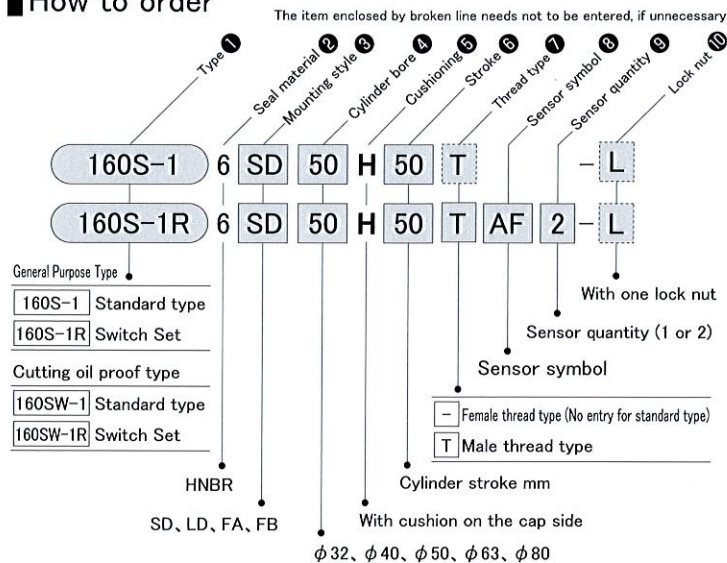
Type	General Purpose Type	Cutting Oil Resistant Specifications
Series	160S-1/1R	160SW-1/1R
Nominal pressure	16MPa	
Maximum allowable pressure	16MPa	
Pressure resistance	24MPa	
Minimum working pressure	0.3MPa	
Usage speed range	8 ~ 100mm/s	
Usage temperature range (Surrounding temperature: However, no freezing)	Standard type ... -10 ~ +120°C Switch set AX,AZ type ... -10 ~ +70°C (Note 1)	
Cushion mechanism	Return end: Metal joint type, Output terminal: None	
Cushion stroke	15mm(Note 2)	
Suitable hydraulic oil	General mineral hydraulic oil	
Screw tolerance	JIS 6H/6g	
Allowable margin for stroke length	0 ~ 0.8mm	
Support type	SD · LD · FA · FB	
Stroke range	15 ~ 80mm	

Note 1) Temperature up to +100°C can be sustained when using AX125, AZ125 switches.

Note 2) Cushion effect decreases if stopped in advance without using stroke end.

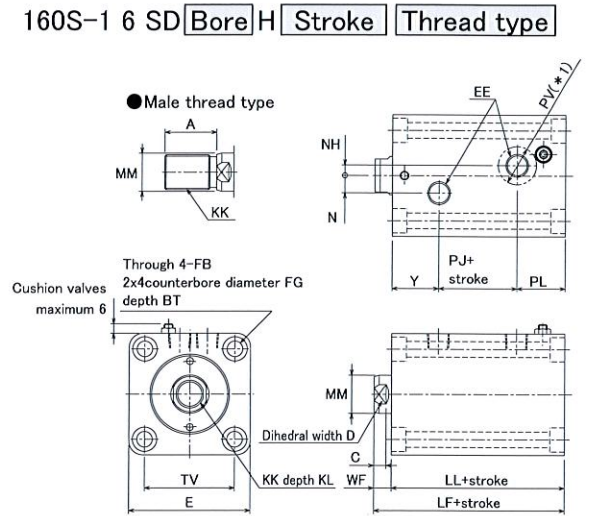
★ Please make separate enquiry for all the details.

How to order



★ For other details, please inquire with us.

Dimensional outline drawing/SD (standard type)



Dimensional Table

Symbol	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

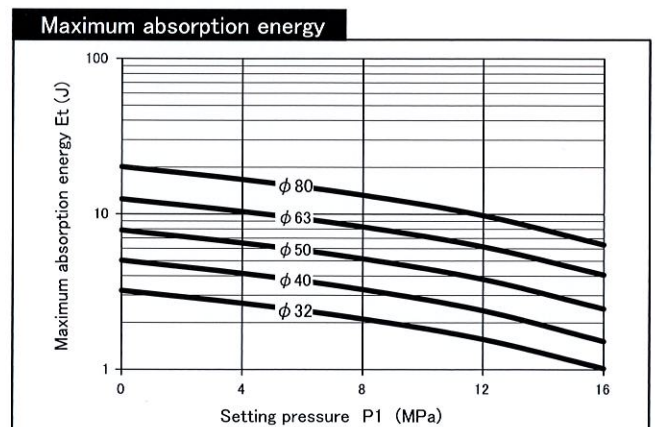
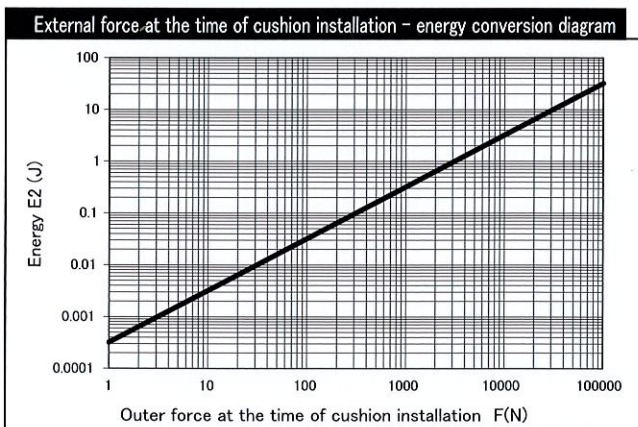
Symbol	N	NH	PJ	PL	PV(*1)	TV	WF	Y
φ 32	10	6	18	28	φ 22	□47	10	28
φ 40	10	6	20	28	φ 22	□52	10	27
φ 50	10	8	22	30	φ 22	□58	11	28
φ 63	10	10	27	30	φ 22	□69	13	30
φ 80	15	15	27.5	35.5	φ 27	□86	17	35

<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

$$\text{Inertial energy of the load at the time of cushion installation } E1 + \text{Energy generated as per the outer force which is received by the cylinder at the time of cushion installation } E2 \leq \text{Maximum absorption energy of the cylinder cushion } Et$$



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