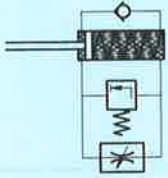


**Shock absorber
Type YSR-...-C**



In these self-adjusting hydraulic shock absorbers the force becoming effective onto the piston rod is cushioned by displacing of oil through a combination of a pressure relief valve and a flow control whose cushioning effect increases the more, the more the piston rod is induced into the cylinder. This ensures an automatic adaption to every possible impact to be cushioned without exceeding the permissible limit of energy. The velocity of the load can be up to 3 m/s. A built-in pressure spring puts the piston rod back to its initial position.

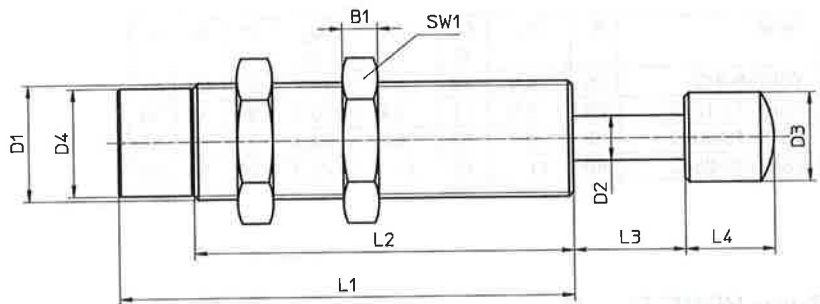
Accessories:

Mounting flange Type YSFR-...-C

Mounting flange Type YSRF-S-...-C with adjustable built-in stop sleeve.

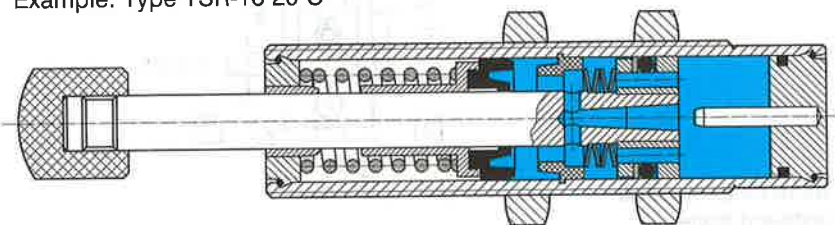


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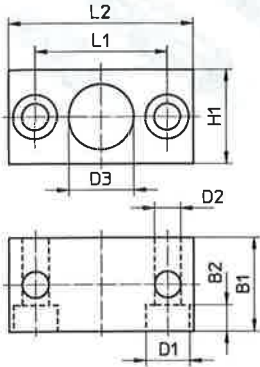
Type	B ₁	D ₁	D ₂ ∅	D ₃ ∅	D ₄ ∅	L ₁	L ₂	L ₃	L ₄	SW ₁
YSR-8-8-C	4	M12 × 1	4	8	10.7	46	33	8	8	15
YSR-12-12-C	5	M16 × 1	6	12	14.7	64	51	12	12	19
YSR-16-20-C	6	M22 × 1.5	8	16	20.1	85	68	20	16	27
YSR-20-25-C	8	M26 × 1.5	10	20	24.1	102	85	25	20	32

Example: Type YSR-16-20-C



Ordering code			Part No. + YSR + piston dia. + stroke length								
Design			Self-adjusting hydraulic shock absorber with reset spring								
Type of installation			Thread with lock nuts								
Frequency			1 Hz (if stressed with half of permissible max. load)								
Impact velocity			0.05 to 3 m/s								
Temperature range			- 10 to + 80 °C								
Materials			Housing: steel; galvanized; piston rod: X 12 Cr Mo S 17; seals: perbunan, polyurethane; cushion: POM								
Shock absorber Ordering code	Piston dia. mm	Stroke length mm	Max. cushioning work W _{max}		Residual energy max. J.	End stop load max. kg	Reset time S ≤	Reset force N	Weight kg		
			per stroke J (kpm)	per hour J							
Part No. Type											
34 571 YSR- 8- 8-C	8	8	3.0 (0.30)	18 000	0.01	30	0.1	5	0.020		
34 572 YSR-12-12-C	12	12	10.0 (1.00)	36 000	0.05	60	0.1	7	0.070		
34 573 YSR-16-20-C	16	20	30.0 (3.00)	64 000	0.16	120	0.2	10	0.140		
34 574 YSR-20-25-C	20	25	60.0 (6.00)	92 000	0.32	200	0.2	10	0.240		

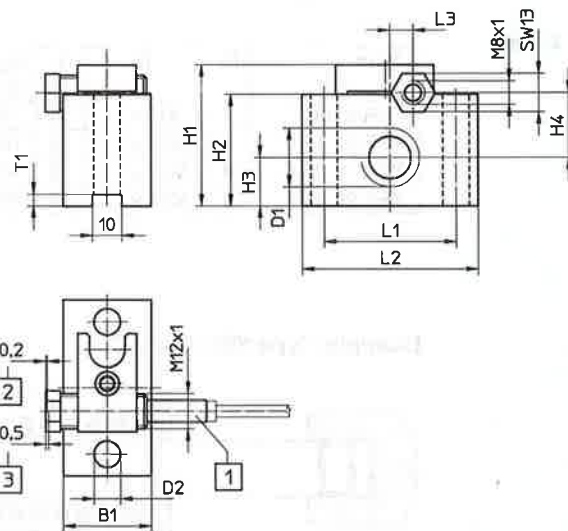
Mounting flange
Type YSRF-...-C



Type	B ₁	B ₂	D ₁ ∅	D ₂ ∅	D ₃ ∅	H ₁	L ₁	L ₂
YSRF-8-8-C	20	5.5	10	5.5	12.2	20	28	41
YSRF-12-12-C	25	6.8	11	6.6	16.2	25	36	50
YSRF-16-20-C	32	9	15	9	22.2	32	45	63
YSRF-20-25-C	40	11	18	11	26.2	40	56	78

Type YSRF-S-...-C

with built-in adjustable stop sleeve. Sensors can be installed into the stop sleeve.



- 1 Sensor
- 2 Minimum distance of the sensor from the end stop
- 3 End position of shock absorber

Sensors to be used
ordering code
with cable
with plug
see sheet 2.383

Type	B ₁	D ₁	D ₂ ∅	H ₁	H ₂	H ₃	H ₄	L ₁	L ₂	L ₃	T ₁
YSRF-S-8-C	20	M12 × 1	5.5	35	25	9.5	16	32	45	4	2
YSRF-S-12-C	25	M16 × 1	6.6	42	32	12.5	20	36	50	3	4
YSRF-S-20-C	30	M22 × 1.5	9	48	38	16.5	22	45	60	8	4
YSRF-S-25-C	30	M26 × 1.5	11	52	42	19	23.5	56	80	11.5	4

Permissible tightening torque of fixing nuts

Piston dia. mm	Max. tightening torque
8	5 Nm
12	20 Nm
16	35 Nm
20	60 Nm
25	80 Nm
32	100 Nm

Ordering code						
Piston dia. mm	Mounting flange		Weight kg	Mounting flange		Weight kg
	Part No.	Type		Part No.	Type	
8	34 575	YSRF- 8-C	0.090	34 579	YSRF-S- 8-C	0.090
12	34 576	YSRF-12-C	0.180	34 580	YSRF-S-12-C	0.130
16	34 577	YSRF-16-C	0.330	34 581	YSRF-S-16-C	0.180
20	34 578	YSRF-20-C	0.700	34 582	YSRF-S-20-C	0.250