

Features

- ◇ Various sizes, suitable for workpiece with different shapes and sizes
- ◇ Large inner support structure, protects the metal sheets from deformation and damage during handling process
- ◇ Slot structure efficiently increases the friction force between vacuum pad and workpiece in order to prevent the oily metal sheets from slipping during the process of handling
- ◇ Flat, oval vacuum pad is suitable for long and narrow workpieces
- ◇ Two material shore hardness are available(45 shore and 60 shore), suitable for metal sheets with different thickness and shapes
- ◇ Vacuum pads are available with various connection types



Applications

- ◇ Car stamped steel
- ◇ Steel plates with oily surface
- ◇ Long and narrow metal sheet parts
- ◇ Handling normal sheet metal (in order to avoid deformation)

Model

Model	Diameter(mm)		Material and Hardness	Connection thread
SOF	16 × 50	40 × 110	N-45(Green)(N-NBR)	G1/4M (M-Male thread)
	20 × 80	50 × 100		G1/4F (F-Female thread)
	23 × 60	60 × 120		G3/8F
	30 × 90	70 × 140	N-60(Orange)(N-NBR)	M10M
	40 × 80			M14 × 1.5M
			RA Rectangular adapter	

△SOF20X80N-60-G3/8F

How to order

Model	Connection G1/4M (Male thread)	G1/4F (Female thread)	G3/8F (Female thread)	M10M (Male thread)	M14 × 1.5M (Male thread)	RA Rectangular adapter
SOF16 × 50N-45	204.0540.0102	204.0540.1102	204.0540.1106	204.0540.0210	204.0540.0214	204.0540.0932
SOF16 × 50N-60	204.0560.0102	204.0560.1102	204.0560.1106	204.0560.0210	204.0560.0214	204.0560.0932
SOF20 × 80N-45	204.0640.0102	204.0640.1102	204.0640.1106	204.0640.0210	204.0640.0214	204.0640.0932
SOF20 × 80N-60	204.0660.0102	204.0660.1102	204.0660.1106	204.0660.0210	204.0660.0214	204.0660.0932
SOF23 × 60N-45	204.0240.0102	204.0240.1102	204.0240.1106	204.0240.0210	204.0240.0214	204.0240.0932
SOF23 × 60N-60	204.0260.0102	204.0260.1102	204.0260.1106	204.0260.0210	204.0260.0214	204.0260.0932
SOF30 × 90N-45	204.0940.0102	204.0940.1102	204.0940.1106	204.0940.0210	204.0940.0214	204.0940.0932
SOF30 × 90N-60	204.0960.0102	204.0960.1102	204.0960.1106	204.0960.0210	204.0960.0214	204.0960.0932
SOF40 × 80N-45	204.0840.0102	204.0840.1102	204.0840.1106	204.0840.0210	204.0840.0214	204.0840.0932
SOF40 × 80N-60	204.0860.0102	204.0860.1102	204.0860.1106	204.0860.0210	204.0860.0214	204.0860.0932
SOF40 × 110N-45	204.1140.0102	204.1140.1102	204.1140.1106	204.1140.0210	204.1140.0214	204.1140.0932
SOF40 × 110N-60	204.1160.0102	204.1160.1102	204.1160.1106	204.1160.0210	204.1160.0214	204.1160.0932
SOF50 × 100N-45	204.1040.0102	204.1040.1102	204.1040.1106	204.1040.0210	204.1040.0214	204.1040.0932
SOF50 × 100N-60	204.1060.0102	204.1060.1102	204.1060.1106	204.1060.0210	204.1060.0214	204.1060.0932
SOF60 × 120N-45	204.1240.0102	204.1240.1102	204.1240.1106	204.1240.0210	204.1240.0214	204.1240.0932
SOF60 × 120N-60	204.1260.0102	204.1260.1102	204.1260.1106	204.1260.0210	204.1260.0214	204.1260.0932
SOF70 × 140N-45	204.1440.0102	204.1440.1102	204.1440.1106	204.1440.0210	204.1440.0214	204.1440.0932
SOF70 × 140N-60	204.1460.0102	204.1460.1102	204.1460.1106	204.1460.0210	204.1460.0214	204.1460.0932

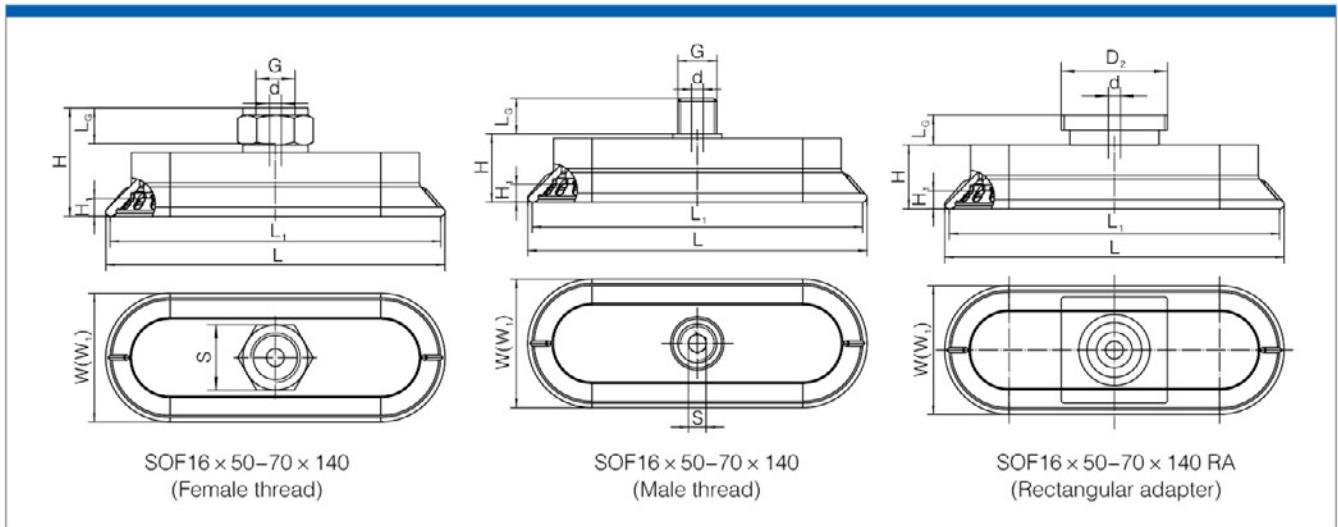
- TXC
- TXM
- SNP
- SOP
- SB
- SBF
- SBOF
- SFT
- SBL
- SBLP
- SF
- SU
- SUF
- STC
- SFF
- SOB
- SOF**
- SOG
- SFP
- SBP
- SXP
- SGP
- SDL
- SD
- SH
- SHB
- AZP
- AZPT
- AZPR
- SAN
- SAO
- SAOT
- SAOR
- SPA
- SPC
- SPF
- SPJ
- SPJG
- SPS
- SPU
- SNT
- K
- Fittings for Vacuum Pads
- BH
- Bulkhead Connector
- Ball Joint

Technical parameters

Model	Vertical pull-out force (N) -60kPa	Lateral pull-out force (N) -60kPa	Lateral pull-out force on oily surface (N) -60kPa	Inner volume (cm ³)	Min. curve radius of workpiece (cm)	Recommended tube Diameter (mm)	Weight (g)
SOF16 × 50	31	24	12	2.0	8	4	17
SOF20 × 80	75	38	35	15.0	20	4	23
SOF23 × 60	57	37	33	3.0	20	4	29
SOF30 × 90	120	77	60	18.0	25	6	24
SOF40 × 80	140	110	100	10.7	50	4	43
SOF40 × 110	200	188	118	35.0	42	6	47
SOF50 × 100	217	181	121	20.0	75	6	56
SOF60 × 120	312	254	170	35.0	75	6	70
SOF70 × 140	425	344	230	52.0	90	6	77

△Workpiece is with smooth, dry surface, the above pull-out force data don't include a safety factor.
Values may change according to different workpiece surfaces.

Dimensions



Model	Size (mm)											
	L	L ₁	W	W ₁	d	G	H	L _g	D ₂	S	H ₁	
SOF16 × 50N-45-G1/4F	50	48	16	14	5	G1/4F	33.5	11	--	17	3	
SOF16 × 50N-45-G1/4M	50	48	16	14	5	G1/4N	21	12	--	5	3	
SOF16 × 50N-45-G3/8F	50	48	16	14	5	G3/8F	33.5	11	--	22	3	
SOF16 × 50N-45-M10M	50	48	16	14	5	M10M	21	12	--	5	3	
SOF16 × 50N-45-M14M	50	48	16	14	5	M14 × 1.5M	21	12	--	5	3	
SOF16 × 50N-45-RA	50	48	16	14	5	--	19.5	18.7	32	--	3	
SOF20 × 80N-45-G1/4F	84	82	24	22	5	G1/4F	29.5	11	--	17	5	
SOF20 × 80N-45-G1/4M	84	82	24	22	5	G1/4N	17	12	--	5	5	
SOF20 × 80N-45-G3/8F	84	82	24	22	5	G3/8F	29.5	11	--	22	5	
SOF20 × 80N-45-M10M	84	82	24	22	5	M10M	17	12	--	5	5	
SOF20 × 80N-45-M14M	84	82	24	22	5	M14 × 1.5M	17	12	--	5	5	
SOF20 × 80N-45-RA	84	82	24	22	5	--	15.5	18.7	32	--	5	

Model \ Size (mm)	L	L ₁	W	W ₁	d	G	H	L _G	D ₂	S	H ₁
SOF23 × 60N-45-G1/4F	62	60	25	23	5	G1/4F	26	11	--	17	3
SOF23 × 60N-45-G1/4M	62	60	25	23	5	G1/4N	13.5	12	--	5	3
SOF23 × 60N-45-G3/8F	62	60	25	23	5	G3/8F	26	11	--	22	3
SOF23 × 60N-45-M10M	62	60	25	23	5	M10M	13.5	12	--	5	3
SOF23 × 60N-45-M14M	62	60	25	23	5	M14 × 1.5M	13.5	12	--	5	3
SOF23 × 60N-45-RA	62	60	25	23	5	--	12	18.7	32	--	3
SOF30 × 90N-45-G1/4F	93	90	33	30	5	G1/4F	30	11	--	17	5
SOF30 × 90N-45-G1/4M	93	90	33	30	5	G1/4N	17.5	12	--	5	5
SOF30 × 90N-45-G3/8F	93	90	33	30	5	G3/8F	30	11	--	22	5
SOF30 × 90N-45-M10M	93	90	33	30	5	M10M	17.5	12	--	5	5
SOF30 × 90N-45-M14M	93	90	33	30	5	M14 × 1.5M	17.5	12	--	5	5
SOF30 × 90N-45-RA	93	90	33	30	5	--	16	18.7	32	--	5
SOF40 × 80N-45-G1/4F	82	80	43	40	5	G1/4F	28	11	--	17	4
SOF40 × 80N-45-G1/4M	82	80	43	40	5	G1/4N	15.5	12	--	5	4
SOF40 × 80N-45-G3/8F	82	80	43	40	5	G3/8F	28	11	--	22	4
SOF40 × 80N-45-M10M	82	80	43	40	5	M10M	15.5	12	--	5	4
SOF40 × 80N-45-M14M	82	80	43	40	5	M14 × 1.5M	15.5	12	--	5	4
SOF40 × 80N-45-RA	82	80	43	40	5	--	14	18.7	32	--	4
SOF40 × 110N-45-G1/4F	113	110	43	40	5	G1/4F	35.5	11	--	17	6
SOF40 × 110N-45-G1/4M	113	110	43	40	5	G1/4N	23	12	--	5	6
SOF40 × 110N-45-G3/8F	113	110	43	40	5	G3/8F	35.5	11	--	22	6
SOF40 × 110N-45-M10M	113	110	43	40	5	M10M	23	12	--	5	6
SOF40 × 110N-45-M14M	113	110	43	40	5	M14 × 1.5M	23	12	--	5	6
SOF40 × 110N-45-RA	113	110	43	40	5	--	21.5	18.7	32	--	6
SOF50 × 100N-45-G1/4F	103	100	54	50	5	G1/4F	30	11	--	17	5
SOF50 × 100N-45-G1/4M	103	100	54	50	5	G1/4N	17.5	12	--	5	5
SOF50 × 100N-45-G3/8F	103	100	54	50	5	G3/8F	30	11	--	22	5
SOF50 × 100N-45-M10M	103	100	54	50	5	M10M	17.5	12	--	5	5
SOF50 × 100N-45-M14M	103	100	54	50	5	M14 × 1.5M	17.5	12	--	5	5
SOF50 × 100N-45-RA	103	100	54	50	5	--	16	18.7	32	--	5
SOF60 × 120N-45-G1/4F	123	120	65	60	5	G1/4F	32	11	--	17	6
SOF60 × 120N-45-G1/4M	123	120	65	60	5	G1/4N	19.5	12	--	5	6
SOF60 × 120N-45-G3/8F	123	120	65	60	5	G3/8F	32	11	--	22	6
SOF60 × 120N-45-M10M	123	120	65	60	5	M10M	19.5	12	--	5	6
SOF60 × 120N-45-M14M	123	120	65	60	5	M14 × 1.5M	19.5	12	--	5	6
SOF60 × 120N-45-RA	123	120	65	60	5	--	18	18.7	32	--	6
SOF70 × 140N-45-G1/4F	143	140	76	70	5	G1/4F	33	11	--	17	7
SOF70 × 140N-45-G1/4M	143	140	76	70	5	G1/4N	20.5	12	--	5	7
SOF70 × 140N-45-G3/8F	143	140	76	70	5	G3/8F	33	11	--	22	7
SOF70 × 140N-45-M10M	143	140	76	70	5	M10M	20.5	12	--	5	7
SOF70 × 140N-45-M14M	143	140	76	70	5	M14 × 1.5M	20.5	12	--	5	7
SOF70 × 140N-45-RA	143	140	76	70	5	--	19	18.7	32	--	7

- TXC
- TXM
- SNP
- SOP
- SB
- SBF
- SBOF
- SFT
- SBL
- SBLP
- SF
- SU
- SUF
- STC
- SFF
- SOB
- SOF**
- SOG
- SFP
- SBP
- SXP
- SGP
- SDL
- SD
- SH
- SHB
- AZP
- AZPT
- AZPR
- SAN
- SAO
- SAOT
- SAOR
- SPA
- SPC
- SPF
- SPJ
- SPJG
- SPS
- SPU
- SNT
- K
- Fittings for Vacuum Pads
- BH
- Bulkhead Connector
- Ball Joint