

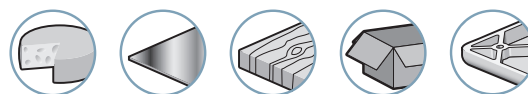


Les ventouses soufflets série VSA allient les avantages des ventouses plates avec plus de flèche, plus de souplesse et de précision. Elles permettent la préhension d'objets légèrement concaves et convexes.

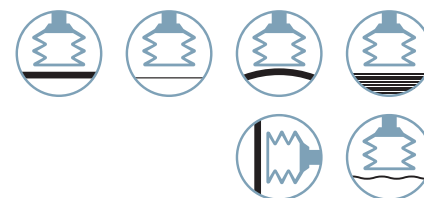
■ Souplesse ■ Précision ■ Flèche

Pour les prises délicates demandant une très grande souplesse de lèvre (ouverture de sacs, prise de gourdes souples aluminium ou plastique), nous préconisons l'utilisation du silicone blanc 35 Shore A, SIB. Pour de plus gros diamètres, voir page 3/7, série MVS.

Domaines d'activité



Cas d'emploi



Matières

NBR Nitrile

NR Caoutchouc naturel

STN SITON® 60 ShoreA

SIT5 Silicone translucide

SIB Silicone blanc 35 Shore A

STN5 SITON® 50 ShoreA (sur demande)

Caractéristiques ventouses

	Ø (mm)	(cm³)	(N) (1)	(N) (1)	R _{min} (mm)	NBR	SIT5	SIB	NR	STN (2)
VSA 5	5.5	0.04	0.5	0.2	10	VSA5NBR	VSA5SIT5	-	-	VSA5STN
VSA 11	11	0.225	1.7	0.9	10	VSA11NBR	VSA11SIT5	-	-	VSA11STN
VSA 14	13	0.42	2.5	1.3	13	VSA14NBR	VSA14SIT5	-	-	VSA14STN
VSA 16	16	0.75	2.7	1.3	20	VSA16NBR	VSA16SIT5	VSA16SIB	VSA16NR	VSA16STN
VSA 18	18	0.76	4.4	2.2	25	VSA18NBR	VSA18SIT5	VSA18SIB	VSA18NR	VSA18STN
VSA 20	19	1.15	5.6	2.8	30	VSA20NBR	VSA20SIT5	VSA20SIB	VSA20NR	VSA20STN
VSA 22	22	1.4	6.1	3.1	25	VSA22NBR	VSA22SIT5	VSA22SIB	VSA22NR	VSA22STN
VSA 25	24	3.15	7.9	4.0	20	VSA25NBR	VSA25SIT5	VSA25SIB	VSA25NR	VSA25STN
VSA 26	25	3.9	10.8	5.4	30	VSA26NBR	VSA26SIT5	-	VSA26NR	VSA26STN
VSA 33	33	4.75	13.9	6.9	40	VSA33NBR	VSA33SIT5	-	VSA33NR	VSA33STN
VSA 43	43	9.25	20.2	10.1	60	VSA43NBR	VSA43SIT5	-	VSA43NR	VSA43STN
VSA 53	53	26.25	42.6	21.3	75	VSA53NBR	VSA53SIT5	-	VSA53NR	VSA53STN
VSA 63	63	39.0	59.2	29.6	75	VSA63NBR	VSA63SIT5	-	VSA63NR	VSA63STN
VSA 78	78	76.0	109.8	54.9	70	VSA78NBR	VSA78SIT5	-	VSA78NR	VSA78STN

(1) Force pratique de la ventouse avec un vide de 65% et un coefficient de sécurité de 2 inclus pour manipulation horizontale et coefficient de 4 inclus pour manipulation verticale.

(2) Sur demande, certains modèles sont disponibles en STN5 (SITON® 50 ShoreA)

Choix des inserts

(Ø)	Groupe	M3-M	M5-M	M6-M	M8-M	M10-M	G1/8"-F	G1/8"-M	10/32-M	G1/4"-F	G1/4"-M	G3/8"-M	G1/2"-M
5	1	■	-	-	-	-	-	-	-	-	-	-	-
11...25	1	-	■	■	-	-	■	■	□	-	-	-	-
26...63	2	-	□	□	□	□	■	■	-	■	■	-	-
78	3	-	-	-	-	□	-	■	-	■	■	■	□

■ Combinaisons «ventouse + insert» disponibles : voir réf. p. 2/28

□ Solutions de montage additionnelles : voir page 2/31

Fixation : M = mâle F = femelle

Types de montages

Les ventouses COVAL disposent d'une grande modularité de montage :



Version C
insert canule



Version S
insert serti usine



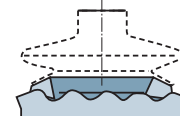
Version V
insert démontable
(vis creuse et adaptateur)



Version E
insert emmanché

Surfaces granuleuses

Dans le cas d'une manipulation de pièces dont la surface de préhension est granuleuse ou structurée, utiliser les ventouses VSA avec l'option Bande mousse VSBM (voir page 2/65).



Accessoires

Afin d'optimiser l'utilisation de vos ventouses, Coval propose toute une gamme d'accessoires (inserts buses, systèmes ressort, rallonges, nourrices, etc.), voir chapitres 4 et 14.



Préciser référence ex. : VSA78NBRIM14C
Voir page 2/28



Groupe 1		C				
Ø 5 - 25 mm	FILETAGE	M3-M	M5-M	M6-M	G1/8"-M	G1/8"-F
	VSA5NBR	VSA5NBRIMM3C	-	-	-	-
	VSA5SIT5	VSA5SIT5IMM3C	-	-	-	-
	VSA5STN	VSA5STNIMM3C	-	-	-	-
	VSA11NBR	-	VSA11NBRIMM5C	VSA11NBRIMM6C	VSA11NBRIM18C	VSA11NBRIF18C
	VSA11NR	-	VSA11NRIMM5C	VSA11NRIMM6C	VSA11NRIM18C	VSA11NRIF18C
	VSA11SIT5	-	VSA11SIT5IMM5C	VSA11SIT5IMM6C	VSA11SIT5IM18C	VSA11SIT5IF18C
	VSA11STN	-	VSA11STNIMM5C	VSA11STNIMM6C	VSA11STNIM18C	VSA11STNIF18C
	VSA14NBR	-	VSA14NBRIMM5C	VSA14NBRIMM6C	VSA14NBRIM18C	VSA14NBRIF18C
	VSA14NR	-	VSA14NRIMM5C	VSA14NRIMM6C	VSA14NRIM18C	VSA14NRIF18C
	VSA14SIT5	-	VSA14SIT5IMM5C	VSA14SIT5IMM6C	VSA14SIT5IM18C	VSA14SIT5IF18C
	VSA14STN	-	VSA14STNIMM5C	VSA14STNIMM6C	VSA14STNIM18C	VSA14STNIF18C
	VSA16NBR	-	VSA16NBRIMM5C	VSA16NBRIMM6C	VSA16NBRIM18C	VSA16NBRIF18C
	VSA16NR	-	VSA16NRIMM5C	VSA16NRIMM6C	VSA16NRIM18C	VSA16NRIF18C
	VSA16SIB	-	VSA16SIBIMM5C	VSA16SIBIMM6C	VSA16SIBIM18C	VSA16SIBIF18C
	VSA16SIT5	-	VSA16SIT5IMM5C	VSA16SIT5IMM6C	VSA16SIT5IM18C	VSA16SIT5IF18C
	VSA16STN	-	VSA16STNIMM5C	VSA16STNIMM6C	VSA16STNIM18C	VSA16STNIF18C
	VSA18NBR	-	VSA18NBRIMM5C	VSA18NBRIMM6C	VSA18NBRIM18C	VSA18NBRIF18C
	VSA18NR	-	VSA18NRIMM5C	VSA18NRIMM6C	VSA18NRIM18C	VSA18NRIF18C
	VSA18SIB	-	VSA18SIBIMM5C	VSA18SIBIMM6C	VSA18SIBIM18C	VSA18SIBIF18C
	VSA18SIT5	-	VSA18SIT5IMM5C	VSA18SIT5IMM6C	VSA18SIT5IM18C	VSA18SIT5IF18C
	VSA18STN	-	VSA18STNIMM5C	VSA18STNIMM6C	VSA18STNIM18C	VSA18STNIF18C
	VSA20NBR	-	VSA20NBRIMM5C	VSA20NBRIMM6C	VSA20NBRIM18C	VSA20NBRIF18C
	VSA20NR	-	VSA20NRIMM5C	VSA20NRIMM6C	VSA20NRIM18C	VSA20NRIF18C
	VSA20SIB	-	VSA20SIBIMM5C	VSA20SIBIMM6C	VSA20SIBIM18C	VSA20SIBIF18C
	VSA20SIT5	-	VSA20SIT5IMM5C	VSA20SIT5IMM6C	VSA20SIT5IM18C	VSA20SIT5IF18C
	VSA20STN	-	VSA20STNIMM5C	VSA20STNIMM6C	VSA20STNIM18C	VSA20STNIF18C
	VSA22NBR	-	VSA22NBRIMM5C	VSA22NBRIMM6C	VSA22NBRIM18C	VSA22NBRIF18C
	VSA22NR	-	VSA22NRIMM5C	VSA22NRIMM6C	VSA22NRIM18C	VSA22NRIF18C
	VSA22SIB	-	VSA22SIBIMM5C	VSA22SIBIMM6C	VSA22SIBIM18C	VSA22SIBIF18C
	VSA22SIT5	-	VSA22SIT5IMM5C	VSA22SIT5IMM6C	VSA22SIT5IM18C	VSA22SIT5IF18C
	VSA22STN	-	VSA22STNIMM5C	VSA22STNIMM6C	VSA22STNIM18C	VSA22STNIF18C
	VSA25NBR	-	VSA25NBRIMM5C	VSA25NBRIMM6C	VSA25NBRIM18C	VSA25NBRIF18C
	VSA25NR	-	VSA25NRIMM5C	VSA25NRIMM6C	VSA25NRIM18C	VSA25NRIF18C
	VSA25SIB	-	VSA25SIBIMM5C	VSA25SIBIMM6C	VSA25SIBIM18C	VSA25SIBIF18C
	VSA25SIT5	-	VSA25SIT5IMM5C	VSA25SIT5IMM6C	VSA25SIT5IM18C	VSA25SIT5IF18C
	VSA25STN	-	VSA25STNIMM5C	VSA25STNIMM6C	VSA25STNIM18C	VSA25STNIF18C

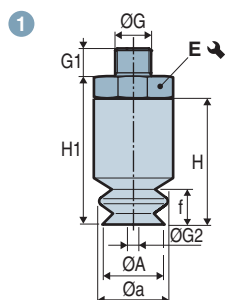
Des solutions de montage additionnelles sont disponibles (voir page 2/31).
Les combinaisons « ventouse+insert » sont livrées non assemblées.

Groupe 2		C 		E 		V 			
Ø 26 - 63 mm	FILETAGE	G1/4"-M	G1/4"-F	G1/4"-M	G1/4"-F	G1/8"-M	G1/8"-F	G1/4"-M	G1/4"-F
	VSA26NBR	VSA26NBRIM14C	VSA26NBRIF14C	VSA26NBRIM14	VSA26NBRIF14	VSA26NBRIM18V	VSA26NBRIF18V	VSA26NBRIM14V	VSA26NBRIF14V
	VSA26NR	VSA26NRIM14C	VSA26NRIF14C	VSA26NRIM14	VSA26NRIF14	VSA26NRIM18V	VSA26NRIF18V	VSA26NRIM14V	VSA26NRIF14V
	VSA26SIT5	VSA26SIT5IM14C	VSA26SIT5IF14C	VSA26SIT5IM14	VSA26SIT5IF14	VSA26SIT5IM18V	VSA26SIT5IF18V	VSA26SIT5IM14V	VSA26SIT5IF14V
	VSA26STN	VSA26STNIM14C	VSA26STNIF14C	VSA26STNIM14	VSA26STNIF14	VSA26STNIM18V	VSA26STNIF18V	VSA26STNIM14V	VSA26STNIF14V
	VSA33NBR	VSA33NBRIM14C	VSA33NBRIF14C	VSA33NBRIM14	VSA33NBRIF14	VSA33NBRIM18V	VSA33NBRIF18V	VSA33NBRIM14V	VSA33NBRIF14V
	VSA33NR	VSA33NRIM14C	VSA33NRIF14C	VSA33NRIM14	VSA33NRIF14	VSA33NRIM18V	VSA33NRIF18V	VSA33NRIM14V	VSA33NRIF14V
	VSA33SIT5	VSA33SIT5IM14C	VSA33SIT5IF14C	VSA33SIT5IM14	VSA33SIT5IF14	VSA33SIT5IM18V	VSA33SIT5IF18V	VSA33SIT5IM14V	VSA33SIT5IF14V
	VSA33STN	VSA33STNIM14C	VSA33STNIF14C	VSA33STNIM14	VSA33STNIF14	VSA33STNIM18V	VSA33STNIF18V	VSA33STNIM14V	VSA33STNIF14V
	VSA43NBR	VSA43NBRIM14C	VSA43NBRIF14C	VSA43NBRIM14	VSA43NBRIF14	VSA43NBRIM18V	VSA43NBRIF18V	VSA43NBRIM14V	VSA43NBRIF14V
	VSA43NR	VSA43NRIM14C	VSA43NRIF14C	VSA43NRIM14	VSA43NRIF14	VSA43NRIM18V	VSA43NRIF18V	VSA43NRIM14V	VSA43NRIF14V
	VSA43SIT5	VSA43SIT5IM14C	VSA43SIT5IF14C	VSA43SIT5IM14	VSA43SIT5IF14	VSA43SIT5IM18V	VSA43SIT5IF18V	VSA43SIT5IM14V	VSA43SIT5IF14V
	VSA43STN	VSA43STNIM14C	VSA43STNIF14C	VSA43STNIM14	VSA43STNIF14	VSA43STNIM18V	VSA43STNIF18V	VSA43STNIM14V	VSA43STNIF14V
	VSA53NBR	VSA53NBRIM14C	VSA53NBRIF14C	VSA53NBRIM14	VSA53NBRIF14	VSA53NBRIM18V	VSA53NBRIF18V	VSA53NBRIM14V	VSA53NBRIF14V
	VSA53NR	VSA53NRIM14C	VSA53NRIF14C	VSA53NRIM14	VSA53NRIF14	VSA53NRIM18V	VSA53NRIF18V	VSA53NRIM14V	VSA53NRIF14V
	VSA53SIT5	VSA53SIT5IM14C	VSA53SIT5IF14C	VSA53SIT5IM14	VSA53SIT5IF14	VSA53SIT5IM18V	VSA53SIT5IF18V	VSA53SIT5IM14V	VSA53SIT5IF14V
	VSA53STN	VSA53STNIM14C	VSA53STNIF14C	VSA53STNIM14	VSA53STNIF14	VSA53STNIM18V	VSA53STNIF18V	VSA53STNIM14V	VSA53STNIF14V
	VSA63NBR	VSA63NBRIM14C	VSA63NBRIF14C	VSA63NBRIM14	VSA63NBRIF14	VSA63NBRIM18V	VSA63NBRIF18V	VSA63NBRIM14V	VSA63NBRIF14V
	VSA63NR	VSA63NRIM14C	VSA63NRIF14C	VSA63NRIM14	VSA63NRIF14	VSA63NRIM18V	VSA63NRIF18V	VSA63NRIM14V	VSA63NRIF14V
	VSA63SIT5	VSA63SIT5IM14C	VSA63SIT5IF14C	VSA63SIT5IM14	VSA63SIT5IF14	VSA63SIT5IM18V	VSA63SIT5IF18V	VSA63SIT5IM14V	VSA63SIT5IF14V
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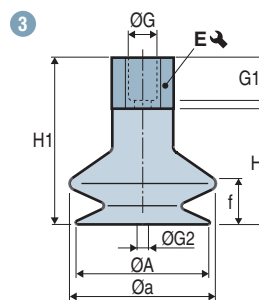
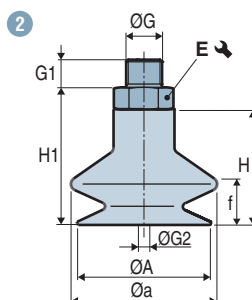
Groupe 3		V			S		
Ø 78 mm	FILETAGE	G1/8"-M	G1/4"-M	G1/4"-F	G1/4"-M	G1/4"-F	G3/8"-M
	VSA78NBR	VSA78NBRIM18V	VSA78NBRIM14V	VSA78NBRIF14V	VSA78NBRIM14	VSA78NBRIF14	VSA78NBRIM38
	VSA78NR	VSA78NRIM18V	VSA78NRIM14V	VSA78NRIF14V	VSA78NRIM14	VSA78NRIF14	VSA78NRIM38
	VSA78SIT5	VSA78SIT5IM18V	VSA78SIT5IM14V	VSA78SIT5IF14V	VSA78SIT5IM14	VSA78SIT5IF14	VSA78SIT5IM38
	VSA78STN	VSA78STNIM18V	VSA78STNIM14V	VSA78STNIF14V	VSA78STNIM14	VSA78STNIF14	VSA78STNIM38



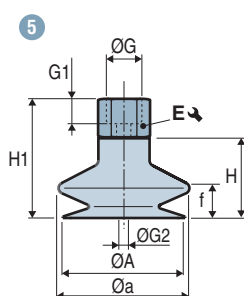
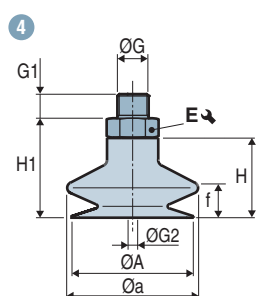
VSA 5 Groupe 1



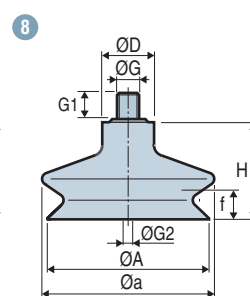
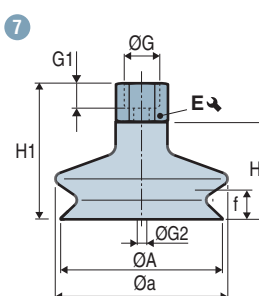
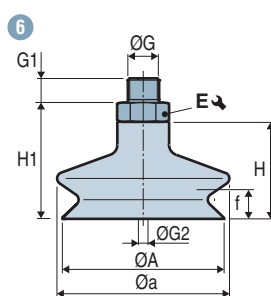
VSA 11 - 25 Groupe 1



VSA 26 - 43 Groupe 2



VSA 53 - 63 Groupe 2 / VSA 78 Groupe 3



Groupe 1		Schéma	ØA	Øa	ØD	f ⁽¹⁾	H	H1	ØG	G1	ØG2 ⁽²⁾	E 	 (g)
Ø 5 - 25 mm	VSA5---IMM3C	1	5.5	6	-	2	11	13	M3-M	3	1.4	5	0.7
	VSA11---IMM5C	2	11	12.2	-	5.5	16	21	M5-M	4.5	2.5	7	4
	VSA11---IMM6C	2	11	12.2	-	5.5	16	21	M6-M	5	3.5	7	3.6
	VSA11---IM18C	2	11	12.2	-	5.5	16	22	G1/8"-M	7.5	3.5	14	5
	VSA11---IF18C	3	11	12.2	-	5.5	16	28	G1/8"-F	8	3.5	14	4.9
	VSA14---IMM5C	2	13	14	-	5	16	21	M5-M	4.5	2.5	7	4.2
	VSA14---IMM6C	2	13	14	-	5	16	21	M6-M	5	3.5	7	3.8
	VSA14---IM18C	2	13	14	-	5	16	22	G1/8"-M	7.5	3.5	14	5.2
	VSA14---IF18C	3	13	14	-	5	16	28	G1/8"-F	8	3.5	14	5.1
	VSA16---IMM5C	2	16	17.3	-	8.5	19	24	M5-M	4.5	2.5	7	4.4
	VSA16---IMM6C	2	16	17.3	-	8.5	19	24	M6-M	5	3.5	7	4
	VSA16---IM18C	2	16	17.3	-	8.5	19	25	G1/8"-M	7.5	3.5	14	5.4
	VSA16---IF18C	3	16	17.3	-	8.5	19	31	G1/8"-F	8	3.5	14	5.3
	VSA18---IMM5C	2	18	18	-	5	16.5	21.5	M5-M	4.5	2.5	7	4.6
	VSA18---IMM6C	2	18	18	-	5	16.5	21.5	M6-M	5	3.5	7	4.2
	VSA18---IM18C	2	18	18	-	5	16.5	22.5	G1/8"-M	7.5	3.5	14	5.6
	VSA18---IF18C	3	18	18	-	5	16.5	28.5	G1/8"-F	8	3.5	14	5.5
	VSA20---IMM5C	2	19	20	-	5	16	21	M5-M	4.5	2.5	7	4.8
	VSA20---IMM6C	2	19	20	-	5	16	21	M6-M	5	3.5	7	5.8
	VSA20---IM18C	2	19	20	-	5	16	22	G1/8"-M	7.5	3.5	14	5.8
	VSA20---IF18C	3	19	20	-	5	16	28	G1/8"-F	8	3.5	14	5.7
	VSA22---IMM5C	2	22	24	-	8	19	24	M5-M	4.5	2.5	7	5.2
	VSA22---IMM6C	2	22	24	-	8	19	24	M6-M	5	3.5	7	4.8
	VSA22---IM18C	2	22	24	-	8	19	25	G1/8"-M	7.5	3.5	14	6.2
	VSA22---IF18C	3	22	24	-	8	19	31	G1/8"-F	8	3.5	14	6.1
	VSA25---IMM5C	2	24	25	-	10	23	28	M5-M	4.5	2.5	7	6
	VSA25---IMM6C	2	24	25	-	10	23	28	M6-M	5	3.5	7	5.8
	VSA25---IM18C	2	24	25	-	10	23	29	G1/8"-M	7.5	3.5	14	7
	VSA25---IF18C	3	24	25	-	10	23	35	G1/8"-F	8	3.5	14	6.9

Note : toutes les cotes sont indiquées en mm

(1) f = Flèche de la ventouse. (2) Ø G2 = Ø de passage intérieur de l'insert.



Groupe 2		Schéma	ØA	Øa	ØD	f ⁽¹⁾	H	H1	ØG	G1	ØG2 ⁽²⁾	E 	 (g)
Ø 26 - 63 mm	VSA26---IM18V	4	25	30	-	6	25	29.5	G1/8"-M	6	3.5	13	18.7
	VSA26---IF18V	5	25	30	-	6	25	38	G1/8"-F	7.5	3.5	13	22
	VSA26---IM14	4	25	30	-	6	25	29	G1/4"-M	11	4.4	17	12.4
	VSA26---IM14C	4	25	30	-	6	25	33	G1/4"-M	10	7	17	13.3
	VSA26---IM14V	4	25	30	-	6	25	30	G1/4"-M	8	3.5	17	28
	VSA26---IF14	5	25	30	-	6	25	40	G1/4"-F	10	4.4	17	13
	VSA26---IF14C	5	25	30	-	6	25	40	G1/4"-F	12	6.9	17	12.6
	VSA26---IF14V	5	25	30	-	6	25	41	G1/4"-F	11	3.5	17	32.6
	VSA33---IM18V	4	33	36.2	-	11	27.5	32	G1/8"-M	6	3.5	13	21.1
	VSA33---IF18V	5	33	36.2	-	11	27.5	40.5	G1/8"-F	7.5	3.5	13	24.4
	VSA33---IM14	4	33	36.2	-	11	27.5	31.5	G1/4"-M	11	4.4	17	14.8
	VSA33---IM14C	4	33	36.2	-	11	27.5	35.5	G1/4"-M	10	7	17	15.7
	VSA33---IM14V	4	33	36.2	-	11	27.5	32.5	G1/4"-M	8	3.5	17	30.4
	VSA33---IF14	5	33	36.2	-	11	27.5	42.5	G1/4"-F	10	4.4	17	15.4
	VSA33---IF14C	5	33	36.2	-	11	27.5	42.5	G1/4"-F	12	6.9	17	15
	VSA33---IF14V	5	33	36.2	-	11	27.5	43.5	G1/4"-F	11	3.5	17	35
	VSA43---IM18V	4	43	46	-	12.5	28	32.5	G1/8"-M	6	3.5	13	25.9
	VSA43---IF18V	5	43	46	-	12.5	28	41	G1/8"-F	7.5	3.5	13	29.2
	VSA43---IM14	4	43	46	-	12.5	28	32	G1/4"-M	11	4.4	17	19.6
	VSA43---IM14C	4	43	46	-	12.5	28	36	G1/4"-M	10	7	17	20.5
	VSA43---IM14V	4	43	46	-	12.5	28	33	G1/4"-M	8	3.5	17	35.2
	VSA43---IF14	5	43	46	-	12.5	28	43	G1/4"-F	10	4.4	17	20.2
	VSA43---IF14C	5	43	46	-	12.5	28	43	G1/4"-F	12	6.9	17	19.8
	VSA43---IF14V	5	43	46	-	12.5	28	44	G1/4"-F	11	3.5	17	39.8
	VSA53---IM18V	6	53	59	-	15	34	38.5	G1/8"-M	6	3.5	13	35
	VSA53---IF18V	7	53	59	-	15	34	47	G1/8"-F	7.5	3.5	13	38.3
	VSA53---IM14	6	53	59	-	15	34	38	G1/4"-M	11	4.4	17	28.7
	VSA53---IM14C	6	53	59	-	15	34	42	G1/4"-M	10	7	17	29.6
	VSA53---IM14V	6	53	59	-	15	34	39	G1/4"-M	8	3.5	17	44.3
	VSA53---IF14	7	53	59	-	15	34	49	G1/4"-F	10	4.4	17	29.3
	VSA53---IF14C	7	53	59	-	15	34	49	G1/4"-F	12	6.9	17	28.9
	VSA53---IF14V	7	53	59	-	15	34	50	G1/4"-F	11	3.5	17	48.9
	VSA63---IM18V	6	63	67	-	15	34	38.5	G1/8"-M	6	3.5	13	39.1
	VSA63---IF18V	7	63	67	-	15	34	47	G1/8"-F	7.5	3.5	13	42.4
	VSA63---IM14	6	63	67	-	15	34	38	G1/4"-M	11	4.4	17	32.8
	VSA63---IM14C	6	63	67	-	15	34	42	G1/4"-M	10	7	17	33.7
VSA63---IM14V	6	63	67	-	15	34	39	G1/4"-M	8	3.5	17	48.4	
VSA63---IF14	7	63	67	-	15	34	49	G1/4"-F	10	4.4	17	33.4	
VSA63---IF14C	7	63	67	-	15	34	49	G1/4"-F	12	6.9	17	33	
VSA63---IF14V	7	63	67	-	15	34	50	G1/4"-F	11	3.5	17	53	

Groupe 3

Ø 78 mm	VSA78---IM18V	8	78	83	25	14	46.8	-	G1/8"-M	8	6	-	85.4
	VSA78---IM14	6	78	83	-	14	46.8	52.8	G1/4"-M	11	8	21	70.2
	VSA78---IM14V	6	78	83	-	14	46.8	51.8	G1/4"-M	8	6	17	92.7
	VSA78---IF14	7	78	83	-	14	46.8	61.8	G1/4"-F	10	8	21	74.1
	VSA78---IF14V	7	78	83	-	14	46.8	65.8	G1/4"-F	9	6	17	102.3
	VSA78---IM38	6	78	83	-	14	46.8	52.8	G3/8"-M	11	8	21	72.4

Note : toutes les cotes sont indiquées en mm

(1) f = Flèche de la ventouse. (2) Ø G2 = Ø de passage intérieur de l'insert.

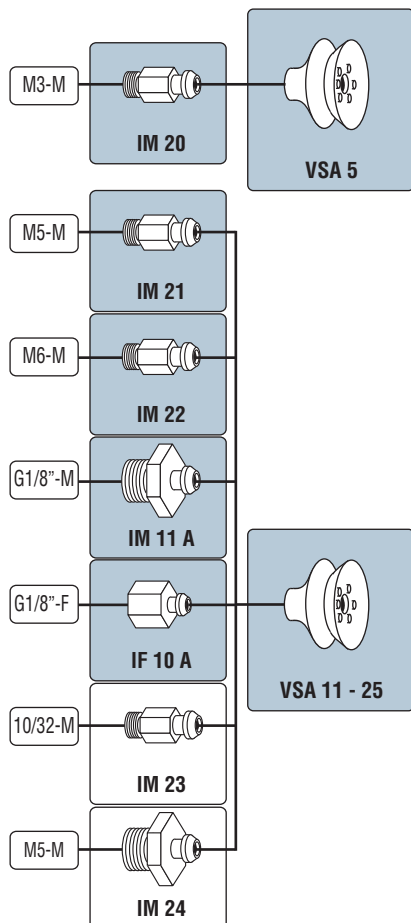


2

VSA

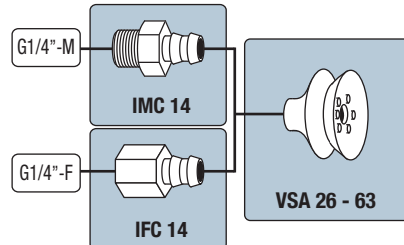
VSA 5 - 25 Groupe 1

Inserts canules C

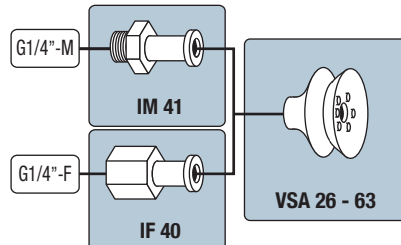


VSA 26 - 63 Groupe 2

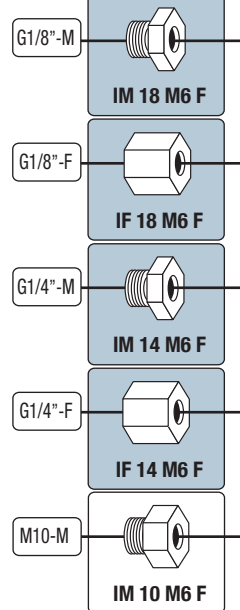
Inserts canules C



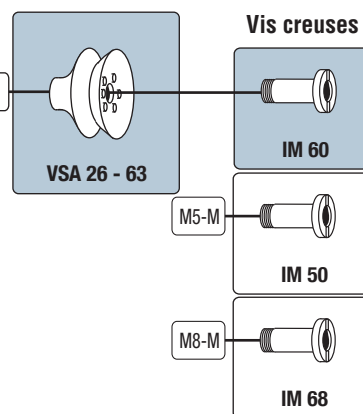
Inserts emmanchés E



Adaptateurs

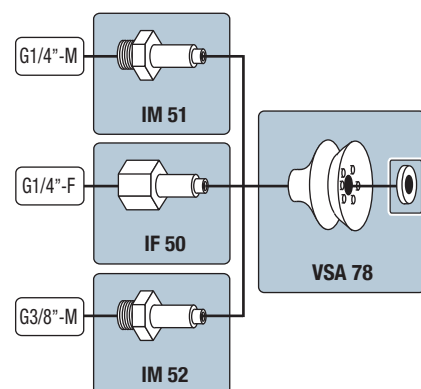


Inserts démontables V

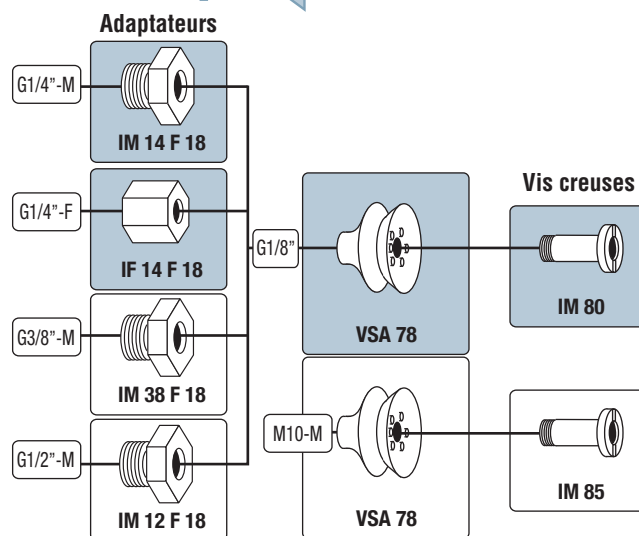


VSA 78 Groupe 3

Inserts sertis usine S



Inserts démontables V



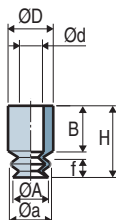
- Combinaisons «ventouse + insert» référencées page 2/28
- Solutions de montage optionnelles à commander en références séparées

Cotes d'encombrement des inserts et ventouses : voir page 2/32.

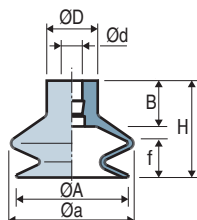


Ventouses

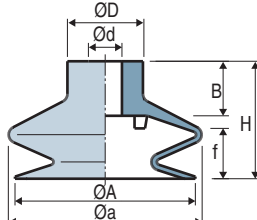
VSA 5



VSA 11 - 25

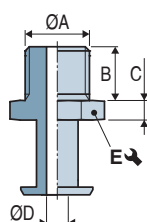


VSA 26 - 78

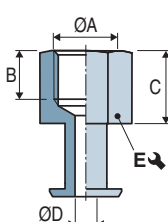


Inserts emmanchés

Mâle - IM



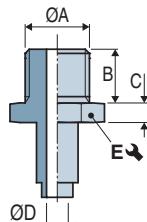
Femelle - IF



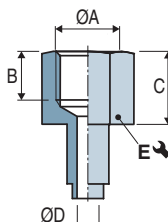
	ØA	B	C	ØD	E	Matériau	(g)
IM41	G1/4"-M	11	4	4.4	17	Aluminium	7.8
IF40	G1/4"-F	10	15	4.4	17	Aluminium	8.4

Inserts sertis usine

Mâle - IM

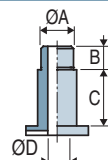


Femelle - IF

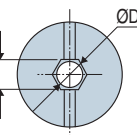


	ØA	B	C	ØD	E	Matériau	(g)
IM 51	G1/4"-M	11	6	4.4	17	Aluminium	11.8
IF 50	G1/4"-F	10	15	8	21	Aluminium	15.7
IM 52	G3/8"-M	11	6	8	21	Aluminium	14

Vis creuses



IM60: 4
IM80: 6



	ØA	B	C	ØD	Matériau	(g)
IM 50	M5-M	5	11	2.8	Laiton	7.4
IM 60 (2) (3)	M6-M	7	11	3.5	Laiton nickelé	7.5
IM 68	M8-M	8	11	5.2	Laiton nickelé	6.4
IM 80	G1/8"-M	8	18	6	Laiton nickelé	23.7
IM 85	M10x150-M	8	18	6	Laiton nickelé	23.5

Les valeurs sont représentatives des caractéristiques moyennes de nos produits.

(2) Version inserts buses : diamètre calibré pour diminuer les fuites en cas d'utilisation en caisson multi ventouses (voir page 4/10)

(3) Disponible en inox

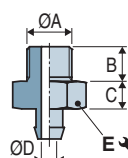


	Ø A	H	Ø a	Ø d	Ø D	f ⁽¹⁾	B	(g)
VSA 5	5.5	11	6	4	7	2	7	0.3
VSA 11	11	16	12.2	4	10	5.5	9	0.9
VSA 14	13	16	14	4	10	5	9	1.1
VSA 16	16	19	17.3	4	10	8.5	9	1.3
VSA 18	18	16.5	18	4	10	5	9	1.5
VSA 20	19	16	20	4	10	5	9	1.7
VSA 22	22	19	24	4	10	8	9	2.1
VSA 25	24	23	25	4	10	10	9	2.9
VSA 26	25	25	30	8	16	6	13	4.6
VSA 33	33	27.5	36.2	8	18	11	13	7
VSA 43	43	28	46	8	18	12.5	13	11.8
VSA 53	53	34	59	8	18	15	13	20.9
VSA 63	63	34	67	8	18	15	13	25
VSA 78	78	46.8	83	12	25	14	20	58.4

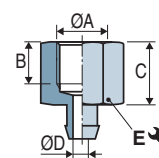
(1) f = Flèche de la ventouse.

Inserts canules

Mâle - IM



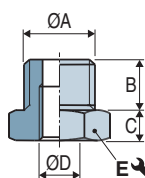
Femelle - IF



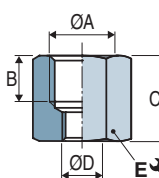
	ØA	B	C	ØD	E	Matériau	(g)
IM 11 A	G1/8"-M	7.5	6	3.5	14	Aluminium	4.1
IMC 14	G1/4"-M	10	8	7	17	Aluminium	8.7
IM20	M3-M	3	2	1.4	5	Aluminium	0.4
IM 21 (2)	M5-M	4.5	5	2.5	7	Laiton nickelé	3.1
IM 22 (2)	M6-M	5	5	3.5	7	Laiton nickelé	2.7
IM 23	10/32-M	4.5	5	2.5	7	Laiton	3
IM 24	M5-M	4.5	2.5	2.5	10	Laiton nickelé	3.2
IF 10 A	G1/8"-F	8	12	3.5	14	Aluminium	4
IFC 14	G1/4"-F	12	15	6.9	17	Aluminium	8

Adaptateurs pour vis creuses

Mâle - IM



Femelle - IF



	ØA	B	C	ØD	E	Matériau	(g)
IM 10 M6F	M10-M	7	3.5	M6-F	13	Laiton	5.9
IM 12 F18	G1/2"-M	14	6	M6-F	22	Laiton nickelé	46.5
IM 14 M6F	G1/4"-M	8	5	M6-F	17	Laiton nickelé	15.9
IM 14 F18	G1/4"-M	8	5	G1/8"-F	17	Laiton nickelé	10.6
IM 18 M6F	G1/8"-M	6	4.5	M6-F	13	Laiton nickelé	6.6
IM 38 F18	G3/8"-M	9	5	G1/8"-F	19	Laiton nickelé	18.8
IF 14 M6F	G1/4"-F	11	16	M6-F	17	Laiton nickelé	20.5
IF 18 M6F	G1/8"-F	7.5	13	M6-F	13	Laiton nickelé	9.9
IF 14 F18	G1/4"-F	9	19	G1/8"-F	17	Laiton nickelé	20.2

Note : toutes les cotes sont indiquées en mm