

Bonded Seals

FRIDLE
GROUP
SEALING EXPERTS



SEALING SYSTEMS



FLUID CONNECTORS



HYDRAULIC COMPONENTS

Rondelle acciaio gomma | *Bonded seals*

Le rondelle di tenuta acciaio gomma rappresentano una combinazione metallo/gomma ad alta resistenza.

La parte in gomma viene vulcanizzata sulla parte interna della rondella metallica. La tenuta viene garantita dalla compressione con conseguente deformazione dell'elastomero verso la superficie di tenuta.

Steel and rubber bonded seals are highly resistant, thanks to the coupling of metal and rubber.

These seals are made of a synthetic rubber element vulcanized into a metal ring. The sealing effect is obtained by compression and deformation of the elastomeric/metal inside onto the surface of application.

RUGOSITÀ SUPERFICIALE | *SURFACE ROUGHNESS*

R_{max} μm	R_z μm
< 15	< 3.2

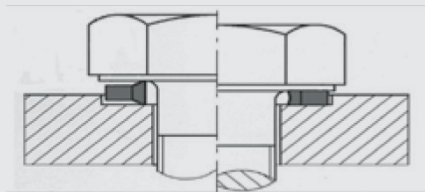
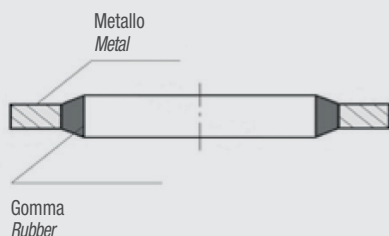
DATI TECNICI | *TECHNICAL DATA*

Materiale anello esterno <i>Internal rubber insert</i>	Materiale anello interno <i>Internal rubber insert</i>	Pressione max bar <i>Pressure max bars</i>
Acciaio AISI 1008 zincato giallo <i>Yellow galvanized steel AISI 1008</i>	NBR 70° Sh	700
	NBR 90° Sh	
Acciaio AISI 304 inox grigio <i>Gray stainless steel AISI 304</i>	FPM 70° Sh	
	FPM 90° Sh	

Profili più comuni e loro installazione | *Common profile and their installation*

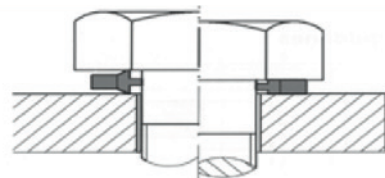
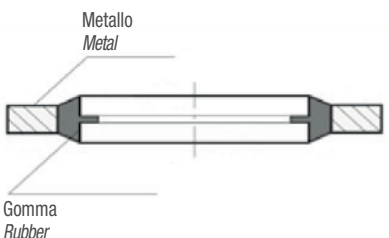
Tenuta standard utilizzata in quasi tutte le applicazioni.

Standard bonded seal for most applications.



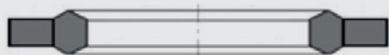
Tenuta con profilo speciale per facilitare il centraggio in fase di serraggio.

Special self centering bonded seal for easy installation.

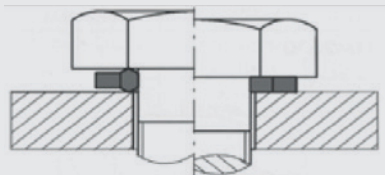


Tenuta con profilo adatto per accoppiamenti aventi una minima coppia di serraggio.

Bonded seal suitable for elements with minimal tightening torque.

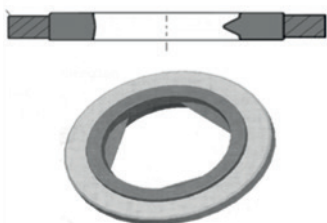


A RICHIESTA | *UPON REQUEST*

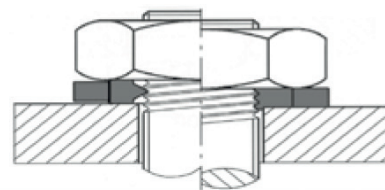


Tenuta con profilo a tre lobi adatta per tenuta su filetti.

Three-lobbed bonded seal for threaded elements.



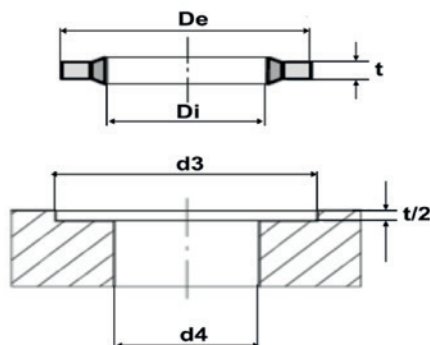
A RICHIESTA | *UPON REQUEST*



Rondelle tenuta acciaio gomma | *Bonded seal*

Rondelle tenuta Acciaio/Gomma SERIE STANDARD Gas.

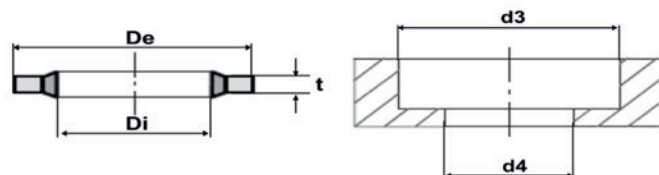
Steel rubber bonded seals *STANDARD SERIES* Gas.



Tipo Type	GAS	Di	De	t	d3	d4
001		3.05	6.35	1.22	6.48	2.79
002		4.12	7.2	1.22	7.39	3.60
003		5.21	8.38	1.22	8.51	4.69
004		6.86	13.21	1.22	13.34	6.34
005		6.99	13.34	1.22	13.47	6.35
006		8.31	13.34	1.22	13.47	7.93
007		8.64	14.22	1.22	14.35	7.94
020	1/8	10.37	15.88	2.00	16.01	9.53
008		11.26	18.36	2.00	18.49	10.16
009		11.69	19.05	2.00	19.18	11.11
021	1/4	13.74	20.57	2.00	20.70	12.70
010		14.86	22.23	2.00	22.36	14.28
022		15.83	22.23	2.00	22.36	15.23
011		16.52	25.40	2.00	25.53	15.88
023	3/8	17.28	23.80	2.00	23.93	16.64
012		18.16	25.40	2.34	25.53	17.46
024		19.69	26.92	2.34	27.05	19.05
025	1/2	21.54	28.58	2.34	28.71	20.64
026	5/8	23.49	31.75	2.34	31.88	22.23
013		24.26	33.27	2.34	33.40	23.80
027	3/4	27.05	34.93	2.34	35.06	25.41
028		27.82	38.61	2.34	38.74	27.00
014		29.33	36.58	2.34	36.71	28.57
029	7/8	30.81	38.10	2.34	38.23	30.15
015		32.64	41.40	3.25	41.53	31.74
030	1	33.89	42.80	3.25	42.93	33.33
016		35.94	44.45	3.25	44.58	34.92
017		38.96	47.75	3.25	47.88	38.10
032	1 1/4	42.93	52.38	3.25	52.51	41.29
018		45.34	57.15	3.25	57.28	44.44
033	1 1/2	48.44	58.60	3.25	58.73	47.64
019		51.69	63.50	3.25	63.63	50.79
034	1 3/4	54.89	69.85	3.25	69.98	53.99
036	2	60.58	73.03	3.25	73.16	59.62
038	2 1/4	66.68	79.50	3.25	79.63	65.50
039	2 1/2	76.08	90.17	3.25	90.30	75.18

Rondelle tenuta Acciaio/Gomma SERIE CETOP.

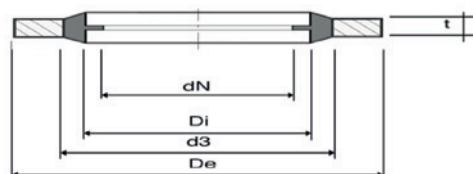
Steel rubber bonded seals *CETOP SERIES*.



Tipo Type	GAS	Di	De	t	d3	d4
519	1/16	8.30	12.70	1.25	13.00	
510	1/8	10.40	14.70	1.25	15.00	
511	1/4	13.85	18.70	1.25	19.00	
512	3/8	17.35	22.70	1.25	23.00	
513	1/2	21.65	26.70	1.25	27.00	
514	3/4	27.30	32.50	1.25	33.00	
515	1	34.20	39.50	2.00	40.00	
516	1 1/4	42.80	49.50	2.00	50.00	
517	1 1/2	48.70	55.50	2.00	56.00	
518	2	60.50	68.50	2.00	69.00	

Rondelle tenuta Acciaio/Gomma SERIE AUTOCENTRANTE.

Steel rubber bonded seals *SELF-CENTERING SERIES*.



Tipo Type	GAS	Di	De	d3	dn	t
866	M8	8.70	14.00	10.40	6.40	1.00
820	1/8	10.37	15.88	11.84	8.26	2.00
821	1/4	13.74	20.57	15.21	11.18	2.00
868	M14	14.70	22.00	16.40	11.38	1.50
870	M16	16.70	24.00	18.40	13.41	1.50
823	3/8	17.28	23.80	18.75	14.76	2.00
872	M18	18.70	26.00	20.40	14.76	1.50
873	M20	20.70	28.00	22.50	16.76	1.50
825	1/2	21.54	28.58	23.01	18.24	2.47
874	M22	22.70	30.00	24.40	18.74	2.00
826	5/8	23.49	31.75	24.97	20.27	2.47
827	3/4	27.05	34.93	28.53	23.83	2.47
829	7/8	30.81	38.10	32.29	27.51	2.47
830	1	33.89	42.80	36.88	29.92	3.40
832	1 1/4	42.93	52.38	45.93	38.45	3.40
834	1 1/2	48.44	58.60	51.39	44.45	3.40
836	2	60.58	73.03	63.63	56.26	3.40
839	2 1/2	76.08	90.17	79.38	71.50	3.40