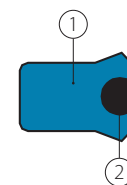


# UPN



① **Tipologia** Poliuretano  
**Designazione** SEALPUR 93  
**Durezza** 93 °ShA

② **Tipologia** Gomma nitrilica NBR  
**Designazione** RUBSEAL 70  
**Durezza** 70 °ShA

## CONDIZIONI D'ESERCIZIO

**Pressione** ≤ 400 bar

**Velocità** ≤ 0.5 m/s

**Temperatura** -40°C ÷ +100°C

**Fluidi** Oli idraulici (a base minerale)  
 Per altri fluidi contattare il nostro ufficio tecnico

## RUGOSITÀ SUPERFICIALE

<b>Superf. dinamica</b>	Ra ≤ 0.3 μm	Rt ≤ 2.5 μm
<b>Superf. statica</b>	Ra ≤ 1.6 μm	Rt ≤ 6.3 μm

## GIOCO D'ACCOPIAMENTO "g"

Il massimo gioco d'accoppiamento sul lato opposto alla direzione della pressione

50 bar	1.20 mm	300 bar	0.25 mm
100 bar	0.80 mm	400 bar	0.17 mm
200 bar	0.40 mm		

## SMUSSI D'INVITO

d	Smin
inferiore 100	5 mm
100÷200	7 mm
oltre 200	10 mm

Dopo il montaggio della guarnizione nella sede verificare che l'elemento energizzante sia posizionato correttamente.

Per evitare di danneggiare la guarnizione, bave e spigoli vivi nell'area d'installazione devono essere rimossi e la sede deve avere spigoli arrotondati.

I dati sopra citati sono valori massimi, possono essere mantenuti per brevi periodi e non possono essere usati allo stesso tempo contemporaneamente.

La guarnizione tipo UPN di Aston Seals, naturale evoluzione della UP, è adatta sia per lo stelo che per il pistone e combina i vantaggi dell'elasticità della gomma nitrilica con la resistenza all'abrasione del poliuretano.

Il suo profilo assicura una buona reazione ai carichi variabili e un attrito ridotto in tutte le condizioni di pressioni.

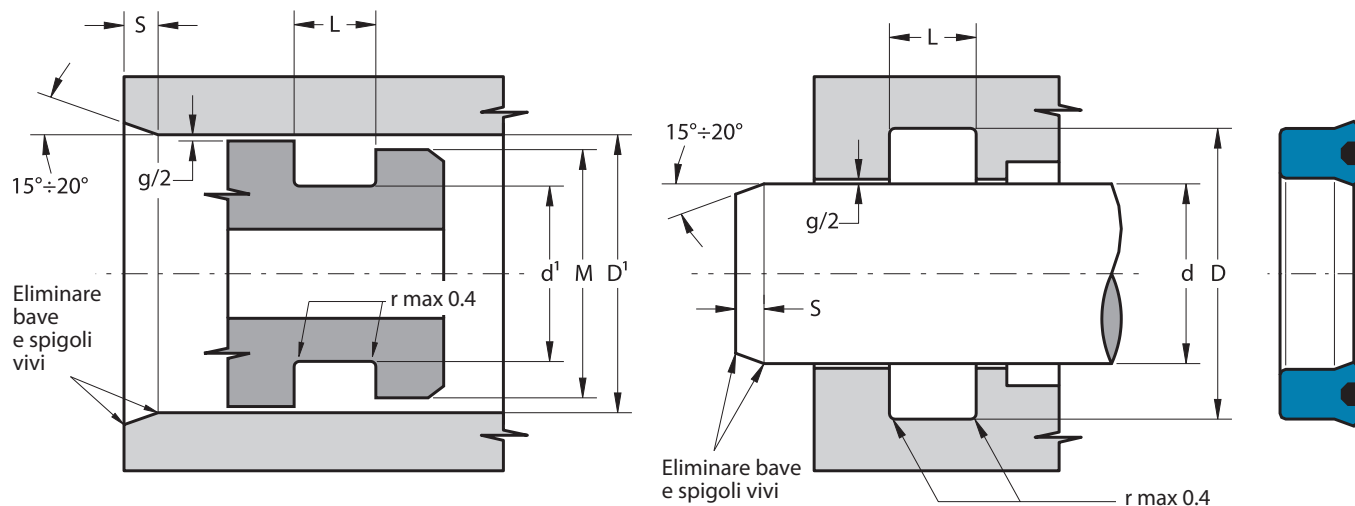
L'elemento energizzante all'interno della gola garantisce una buona capacità di tenuta anche alle basse pressioni.

Il materiale utilizzato per produrre questa guarnizione è uno speciale poliuretano che ha eccellenti proprietà anti-usura e che assicura elevata durata in esercizio e resistenza

all'estrusione.

- Buona capacità di tenuta anche alle basse pressioni
- Adatta sia per stelo che per pistone
- Soluzione economica
- Eccellente resistenza all'usura
- Elevata durata in esercizio
- Alta resistenza contro l'estrusione
- Buona resistenza alla temperatura
- Di facile installazione

# UPN

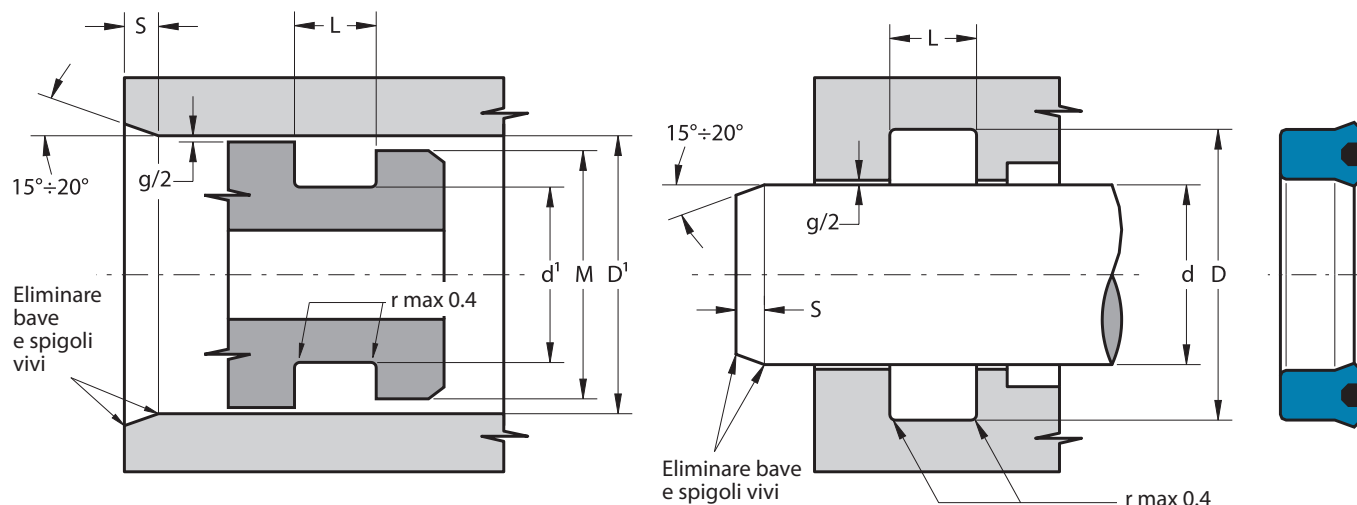


Part.	$d_{f7}^{1 f8}$	$D_{H10}^{1 H10}$	$L_{+0.25}$	M
UPN 5 17 9	5	17	10.0	14.0
UPN 8 18 9	8	18	10.0	15.5
UPN 10 18 5	10	18	6.0	16.0
UPN 10 20 8	10	20	9.0	17.5
UPN 10 22 8	10	22	9.0	19.0
UPN 12 22 5	12	22	6.0	19.5
UPN 12 22 7	12	22	8.0	19.5
UPN 12 22 8	12	22	9.0	19.5
UPN 12 24 8	12	24	9.0	21.0
UPN 13 19 4	13	19	4.5	17.5
UPN 14 24 8	14	24	9.0	21.5
UPN 14 27 7	14	27	8.0	24.0
UPN 15 21.5 4.5	15	21.5	5.0	20.0
UPN 15 25 8	15	25	9.0	22.5
UPN 15 25 10	15	25	11.0	22.5
UPN 15.85 22.3 5	15.85	22.3	6.0	20.8
UPN 16 24 8	16	24	9.0	22.0
UPN 16 26 5	16	26	6.0	23.5
UPN 16 26 8	16	26	9.0	23.5
UPN 16 28 6	16	28	7.0	25.0
UPN 16 28 9	16	28	10.0	25.0
UPN 16 32 8	16	32	9.0	28.0
UPN 17 25 4	17	25	4.5	23.0
UPN 17 25 6	17	25	7.0	23.0

Part.	$d_{f7}^{1 f8}$	$D_{H10}^{1 H10}$	$L_{+0.25}$	M
UPN 17 27 6.5	17	27	7.5	24.5
UPN 18 26 7.5	18	26	8.5	24.0
UPN 18 28 8	18	28	9.0	25.5
UPN 18 30 8	18	30	9.0	27.0
UPN 20 26 6.5	20	26	7.5	24.5
UPN 20 28 4	20	28	4.5	26.0
UPN 20 28 5	20	28	5.5	26.0
UPN 20 28 5.7	20	28	6.2	26.0
UPN 20 28 7	20	28	8.0	26.0
UPN 20 28 8	20	28	9.0	26.0
UPN 20 29 5	20	29	5.5	27.0
UPN 20 30 7	20	30	8.0	27.5
UPN 20 30 8	20	30	9.0	27.5
UPN 20 30 10	20	30	11.0	27.5
UPN 20 32 7.5	20	32	8.5	29.0
UPN 20 35 9	20	35	10.0	31.5
UPN 20 40 10	20	40	11.0	35.0
UPN 20 40 12	20	40	13.0	35.0
UPN 20.5 26.5 7	20.5	26.5	8.0	25.0
UPN 22 32 8	22	32	9.0	29.5
UPN 22 32 10	22	32	11.0	29.5
UPN 22 35 10	22	35	11.0	32.0
UPN 22 40 10	22	40	11.0	35.5
UPN 24 32 6	24	32	7.0	30.0

Part.	$d_{f7}^{1 f8}$	$D_{H10}^{1 H10}$	$L_{+0.25}$	M
UPN 24 32 7	24	32	8.0	30.0
UPN 25 33 6	25	33	7.0	31.0
UPN 25 33 8	25	33	9.0	31.0
UPN 25 35 5	25	35	5.5	32.5
UPN 25 35 6.35	25	35	7.35	32.5
UPN 25 35 8	25	35	9.0	32.5
UPN 25 35 10	25	35	11.0	32.5
UPN 25 38 8	25	38	9.0	35.0
UPN 25 38 10	25	38	11.0	35.0
UPN 25 40 7	25	40	8.0	36.0
UPN 25 40 10	25	40	11.0	36.0
UPN 27 36.5 6.8	27	36.5	7.8	34.0
UPN 28 38 7	28	38	8.0	35.5
UPN 28 38 8	28	38	9.0	35.5
UPN 28 38 10	28	38	11.0	35.5
UPN 28 40 6.35	28	40	7.35	37.0
UPN 28 40 10	28	40	11.0	37.0
UPN 30 38 8	30	38	9.0	36.5
UPN 30 40 5	30	40	5.5	37.5
UPN 30 40 6	30	40	7.0	37.5
UPN 30 40 9	30	40	10.0	37.5
UPN 30 40 10	30	40	11.0	37.5
UPN 30 42 9	30	42	10.0	39.0
UPN 30 42 10	30	42	11.0	39.0

# UPN

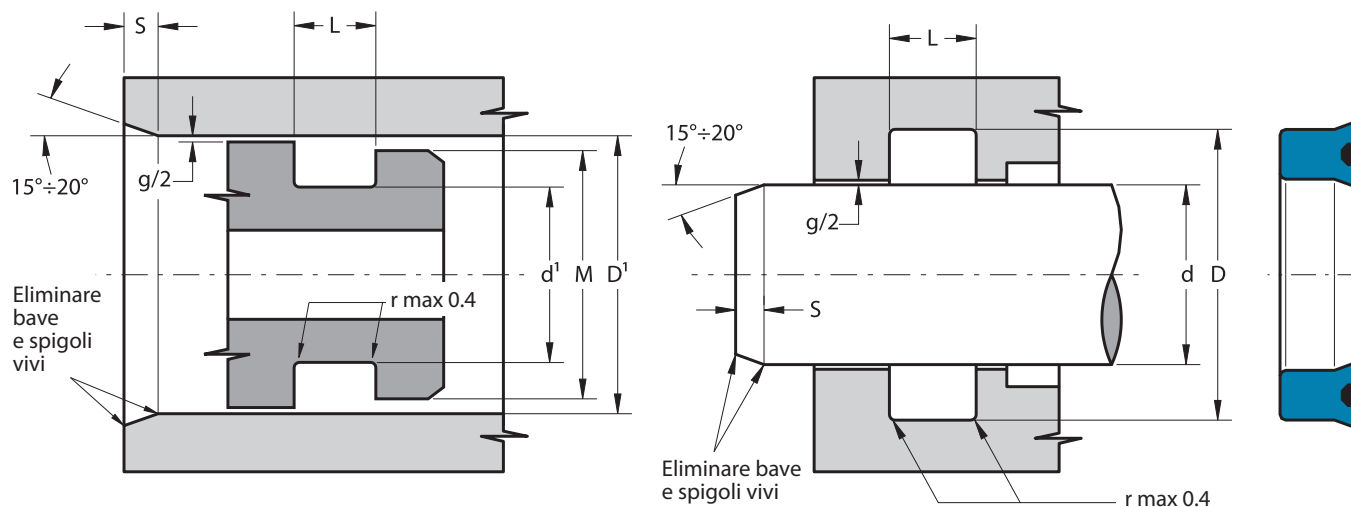


Part.	$d_{f7}^{1 H8}$	$D_{H10}^{1 H10}$	$L_{+0.25}$	M
UPN 30 45 10	30	45	11.0	41.5
UPN 30 50 10	30	50	11.0	45.0
UPN 30 50 12	30	50	13.0	45.0
UPN 32 40 5.5	32	40	6.0	38.0
UPN 32 40 8	32	40	9.0	38.0
UPN 32 42 10	32	42	11.0	39.5
UPN 32 45 10	32	45	11.0	42.0
UPN 34 45 7	34	45	8.0	42.5
UPN 34 45 9	34	45	10.0	42.5
UPN 35 43 6	35	43	7.0	41.0
UPN 35 45 5	35	45	5.5	42.5
UPN 35 45 6	35	45	7.0	42.5
UPN 35 45 7	35	45	8.0	42.5
UPN 35 45 8	35	45	9.0	42.5
UPN 35 45 10	35	45	11.0	42.5
UPN 35 48 10	35	48	11.0	45.0
UPN 35 50 9	35	50	10.0	46.5
UPN 35 50 10	35	50	11.0	46.5
UPN 35 55 10	35	55	11.0	50.0
UPN 35 55 12	35	55	13.0	50.0
UPN 36 46 7	36	46	8.0	43.5
UPN 36 48 8	36	48	9.0	45.0
UPN 38 46 6.5	38	46	7.5	44.0
UPN 38 50 9	38	50	10.0	47.0

Part.	$d_{f7}^{1 H8}$	$D_{H10}^{1 H10}$	$L_{+0.25}$	M
UPN 38 55 10	38	55	11.0	51.0
UPN 38 58 10	38	58	11.0	53.0
UPN 40 48 5.8	40	48	6.3	46.0
UPN 40 48 8	40	48	9.0	46.0
UPN 40 50 5	40	50	5.5	47.5
UPN 40 50 6	40	50	7.0	47.5
UPN 40 50 6.5	40	50	7.5	47.5
UPN 40 50 8	40	50	9.0	47.5
UPN 40 50 9	40	50	10.0	47.5
UPN 40 50 10	40	50	11.0	47.5
UPN 40 55 9	40	55	10.0	51.5
UPN 40 55 10	40	55	11.0	51.5
UPN 40 60 10	40	60	11.0	55.0
UPN 40 60 13	40	60	14.0	55.0
UPN 42 50 6	42	50	7.0	48.0
UPN 42 50 8	42	50	9.0	48.0
UPN 42 52 9	42	52	10.0	49.5
UPN 42 62 12	42	62	13.0	57.0
UPN 45 53 6.5	45	53	7.5	51.0
UPN 45 55 6	45	55	7.0	52.5
UPN 45 55 6.5	45	55	7.5	52.5
UPN 45 55 10	45	55	11.0	52.5
UPN 45 56 7	45	56	8.0	53.5
UPN 45 60 10	45	60	11.0	56.5

Part.	$d_{f7}^{1 H8}$	$D_{H10}^{1 H10}$	$L_{+0.25}$	M
UPN 45 63 10	45	63	11.0	58.5
UPN 45 65 10	45	65	11.0	60.0
UPN 45 65 12	45	65	13.0	60.0
UPN 48 58 10	48	58	11.0	55.5
UPN 50 60 5	50	60	5.5	57.5
UPN 50 60 6	50	60	7.0	57.5
UPN 50 60 7	50	60	8.0	57.5
UPN 50 60 10	50	60	11.0	57.5
UPN 50 60 11	50	60	12.0	57.5
UPN 50 62 9	50	62	10.0	59.0
UPN 50 63 6	50	63	7.0	60.0
UPN 50 63 9	50	63	10.0	60.0
UPN 50 65 7	50	65	8.0	61.5
UPN 50 65 10	50	65	11.0	61.5
UPN 50 70 10	50	70	11.0	65.0
UPN 50 70 12	50	70	13.0	65.0
UPN 52 62 12	52	62	13.0	59.5
UPN 53 63 6.5	53	63	7.5	60.5
UPN 55 65 6	55	65	7.0	62.5
UPN 55 65 10	55	65	11.0	62.5
UPN 55 65 12	55	65	13.0	62.5
UPN 55 70 12	55	70	13.0	66.5
UPN 55 75 12	55	75	13.0	70.0
UPN 55 80 12	55	80	13.0	74.0

# UPN

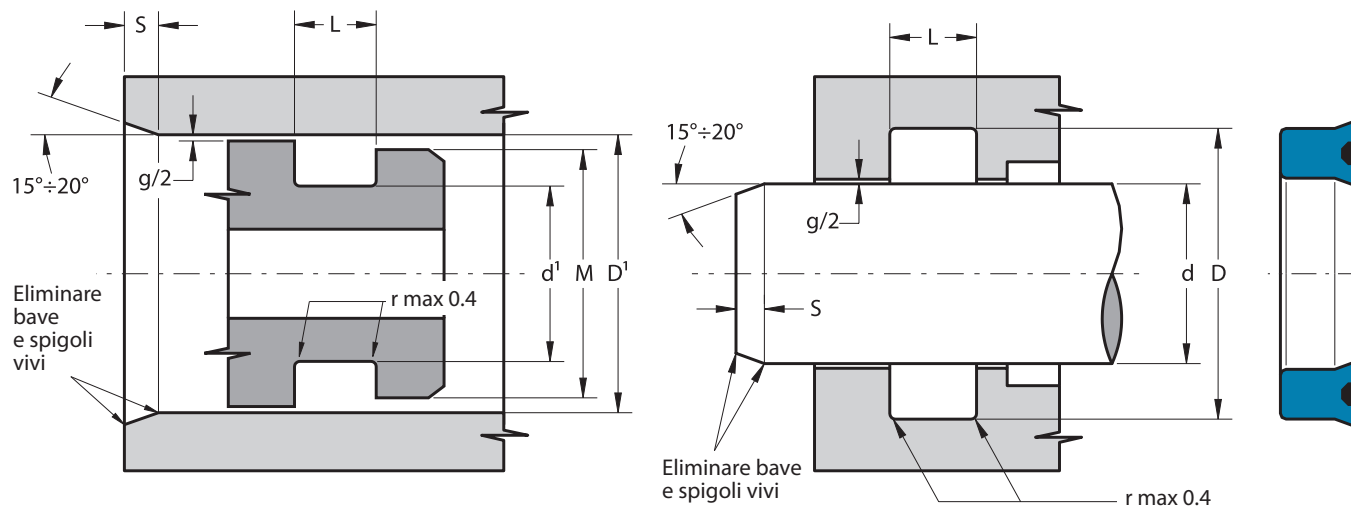


Part.	$d^{1 f8}$ $d_{f7}$	$D^{1 H10}$ $D_{H10}$	$L_{+0.25}$	M
UPN 56 66 5	56	66	5.5	63.5
UPN 56 66 6	56	66	7.0	63.5
UPN 59.6 70 5.2	59.6	70	5.7	67.5
UPN 60 70 5	60	70	5.5	67.5
UPN 60 70 6	60	70	7.0	67.5
UPN 60 70 8	60	70	9.0	67.5
UPN 60 70 10	60	70	11.0	67.5
UPN 60 70 12	60	70	13.0	67.5
UPN 60 71 7	60	71	8.0	68.0
UPN 60 72 9.52	60	72	10.5	69.0
UPN 60 75 10	60	75	11.0	71.5
UPN 60 75 11.4	60	75	12.4	71.5
UPN 60 75 12	60	75	13.0	71.5
UPN 60 80 10	60	80	11.0	75.0
UPN 60 80 12	60	80	13.0	75.0
UPN 60 80 18	60	80	19.0	75.0
UPN 63 73 6	63	73	7.0	70.5
UPN 63 75 10	63	75	11.0	72.0
UPN 63 78 10	63	78	11.0	74.5
UPN 65 75 6	65	75	7.0	72.5
UPN 65 75 8	65	75	9.0	72.5
UPN 65 75 12	65	75	13.0	72.5
UPN 65 80 10	65	80	11.0	76.5
UPN 65 80 11	65	80	12.0	76.5

Part.	$d^{1 f8}$ $d_{f7}$	$D^{1 H10}$ $D_{H10}$	$L_{+0.25}$	M
UPN 65 80 12	65	80	13.0	76.5
UPN 65 85 12	65	85	13.0	80.0
UPN 67 77 10	67	77	11.0	74.5
UPN 68 92.4 14	68	92.4	15.0	86.5
UPN 70 75 3.5	70	75	4.1	73.5
UPN 70 80 5	70	80	6.0	77.5
UPN 70 80 6	70	80	7.0	77.5
UPN 70 80 8	70	80	9.0	77.5
UPN 70 80 10	70	80	11.0	77.5
UPN 70 80 12	70	80	13.0	77.5
UPN 70 85 11	70	85	12.0	81.5
UPN 70 85 12	70	85	13.0	81.5
UPN 70 90 12	70	90	13.0	85.0
UPN 75 85 6	75	85	7.0	82.5
UPN 75 85 12	75	85	13.0	82.5
UPN 75 90 7.5	75	90	8.5	86.5
UPN 75 90 10	75	90	11.0	86.5
UPN 75 90 12	75	90	13.0	86.5
UPN 75 95 10	75	95	11.0	90.0
UPN 75 95 12	75	95	13.0	90.0
UPN 75 95 13.5	75	95	14.5	90.0
UPN 75 95 14.5	75	95	15.5	90.0
UPN 77.5 87.5 10	77.5	87.5	11.0	85.0
UPN 80 90 5	80	90	6.0	87.5

Part.	$d^{1 f8}$ $d_{f7}$	$D^{1 H10}$ $D_{H10}$	$L_{+0.25}$	M
UPN 80 90 6	80	90	7.0	87.5
UPN 80 90 8	80	90	9.0	87.5
UPN 80 90 10	80	90	11.0	87.5
UPN 80 90 12	80	90	13.0	87.5
UPN 80 95 12	80	95	13.0	91.5
UPN 80 100 9.5	80	100	10.5	95.0
UPN 80 100 10	80	100	11.0	95.0
UPN 80 100 12	80	100	13.0	95.0
UPN 80 100 15.9	80	100	16.9	95.0
UPN 85 95 8.5	85	95	9.5	92.5
UPN 85 95 12	85	95	13.0	92.5
UPN 85 100 9	85	100	10.0	96.5
UPN 85 100 10	85	100	11.0	96.5
UPN 85 100 12	85	100	13.0	96.5
UPN 85 105 12	85	105	13.0	100.0
UPN 90 100 7	90	100	8.0	97.5
UPN 90 100 8	90	100	9.0	97.5
UPN 90 100 12	90	100	13.0	97.5
UPN 90 103 10	90	103	11.0	100.0
UPN 90 105 12	90	105	13.0	101.5
UPN 90 110 12	90	110	13.0	105.0
UPN 90 115 12	90	115	13.0	109.0
UPN 90 115 15	90	115	16.0	109.0
UPN 95 110 9	95	110	10.0	106.5

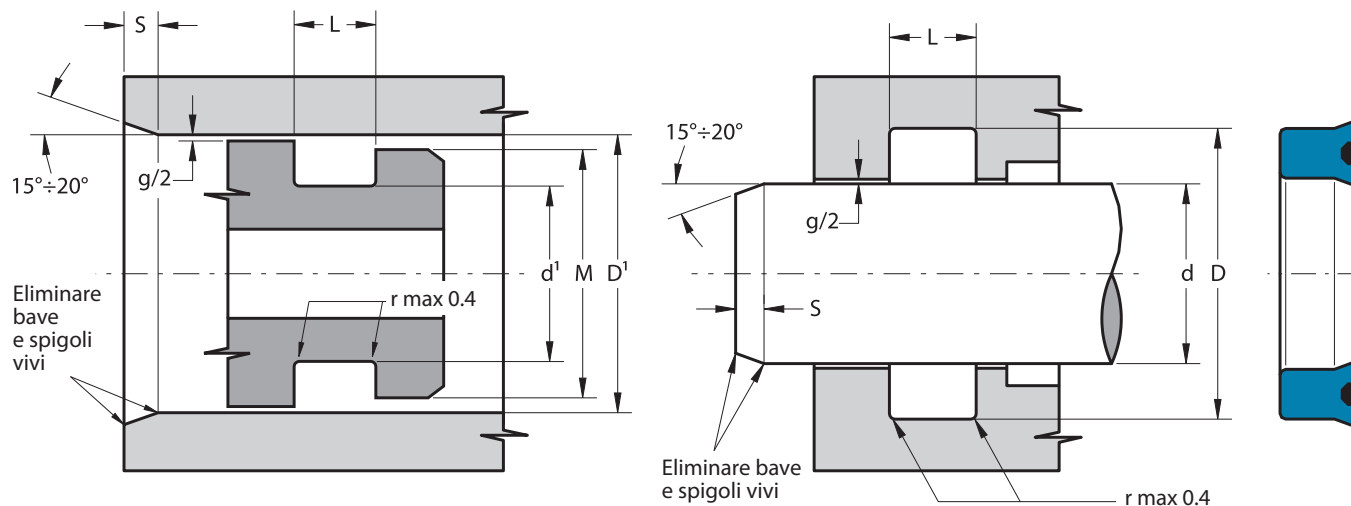
# UPN



Part.	$d_{f7}^{1\ H8}$	$D_{H10}^{1\ H10}$	$L_{+0.25}$	M
UPN 95 110 12	95	110	13.0	106.5
UPN 95 115 12	95	115	13.0	110.0
UPN 100 115 9	100	115	10.0	111.5
UPN 100 115 12	100	115	13.0	111.5
UPN 100 120 12	100	120	13.0	115.0
UPN 100 125 12	100	125	13.0	119.0
UPN 100 125 15	100	125	16.0	119.0
UPN 105 120 8	105	120	9.0	116.5
UPN 105 120 11	105	120	12.0	116.5
UPN 105 120 15	105	120	16.0	116.5
UPN 105 125 12	105	125	13.0	120.0
UPN 105 125 15	105	125	16.0	120.0
UPN 109 125 11	109	125	12.0	121.0
UPN 110 125 9	110	125	10.0	121.5
UPN 110 125 12	110	125	13.0	121.5
UPN 110 125 15	110	125	16.0	121.5
UPN 110 130 15	110	130	16.0	125.0
UPN 115 135 15	115	135	16.0	130.0
UPN 120 140 15	120	140	16.0	135.0
UPN 120 145 19.05	120	145	20.05	139.0
UPN 125 140 9	125	140	10.0	136.5
UPN 125 140 11	125	140	12.0	136.5
UPN 125 140 15	125	140	16.0	136.5
UPN 125 145 15	125	145	16.0	140.0

Part.	$d_{f7}^{1\ H8}$	$D_{H10}^{1\ H10}$	$L_{+0.25}$	M
UPN 128 140 12	128	140	13.0	137.0
UPN 130 145 12	130	145	13.0	141.5
UPN 130 150 15	130	150	16.0	145.0
UPN 140 155 9	140	155	10.0	151.5
UPN 140 160 12	140	160	13.0	155.0
UPN 140 160 15	140	160	16.0	155.0
UPN 145 165 15	145	165	16.0	160.0
UPN 150 170 15	150	170	16.0	165.0
UPN 160 175 12	160	175	13.0	171.5
UPN 160 180 15	160	180	16.0	175.0
UPN 170 190 12	170	190	13.0	185.0
UPN 170 190 15	170	190	16.0	185.0
UPN 175 200 15	175	200	16.0	194.0
UPN 180 200 15	180	200	16.0	195.0
UPN 180 205 18	180	205	19.0	199.0
UPN 190 210 15	190	210	16.0	205.0
UPN 200 220 12	200	220	13.0	215.0
UPN 200 220 15	200	220	16.0	215.0
UPN 200 225 18	200	225	19.0	219.0
UPN 220 250 18	220	250	19.0	242.5

# UPN



Part.	$d_{f7}^{1H8}$	$D_{H10}^{1H10}$	$L_{+0.25}$	M
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UPN 0250 0500 0250	6.35	12.70	7.35	11.2
UPN 0625 0875 0250	15.87	22.22	7.35	20.7
UPN 0750 1000 0250	19.05	25.4	7.35	24.0
UPN 1000 1250 0250	25.40	31.75	7.35	30.2
UPN 1000 1375 0312	25.40	34.92	8.90	32.5
UPN 1250 1500 0250	31.75	38.10	7.35	36.6
UPN 1250 1625 0312	31.75	41.28	8.90	38.9
UPN 1375 1750 0312	34.92	44.45	8.90	42.0
UPN 1500 1750 0250	38.10	44.45	7.35	42.9
UPN 1500 1875 0312	38.10	47.62	8.90	45.3
UPN 1500 2000 0250	38.10	50.80	7.35	48.0
UPN 1500 2000 0375	38.10	50.80	10.50	47.7
UPN 1625 2000 0375	41.28	50.80	10.50	48.5
UPN 1750 2125 0375	44.45	53.97	10.50	51.6
UPN 1875 2250 0375	47.62	57.15	10.50	54.8

Part.	$d_{f7}^{1H8}$	$D_{H10}^{1H10}$	$L_{+0.25}$	M
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UPN 2000 2375 0375	50.80	60.30	10.50	58.0
UPN 2000 2500 0250	50.80	63.50	7.35	60.5
UPN 2000 2500 0375	50.80	63.50	10.50	60.5
UPN 2000 2625 0562	50.80	66.68	14.78	61.6
UPN 2000 2750 0500	50.80	69.85	13.70	65.1
UPN 2125 2625 0406	53.97	66.68	11.00	63.5
UPN 2250 2625 0375	57.15	66.68	10.50	64.5
UPN 2250 2750 0375	57.15	69.85	10.50	66.7
UPN 2125 2500 0375	59.97	63.50	10.50	61.2
UPN 2500 3000 0375	63.50	76.20	10.50	73.5
UPN 2500 3125 0500	63.50	79.37	13.70	75.4
UPN 2500 3250 0620	63.50	82.55	16.75	78.0
UPN 2625 3000 0187	66.68	76.20	5.25	74.0
UPN 2750 3250 0375	69.85	82.55	10.50	79.5
UPN 2750 3500 0500	69.85	88.90	13.70	84.1
UPN 3000 3500 0375	76.20	88.90	10.50	85.8
UPN 3000 3625 0562	76.20	92.08	14.78	87.1

Part.	$d_{f7}^{1H8}$	$D_{H10}^{1H10}$	$L_{+0.25}$	M
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UPN 3000 3750 0620	76.20	95.25	16.75	90.5
UPN 3250 4000 0625	82.55	101.6	16.90	96.9
UPN 3500 3875 0375	88.90	98.43	10.50	96.0
UPN 3500 4000 0375	88.90	101.60	10.50	98.6
UPN 3500 4250 0620	88.90	107.95	16.75	103.0
UPN 3750 4500 0625	95.25	114.30	16.90	109.6
UPN 3875 4250 0187	98.43	107.95	5.25	105.5
UPN 4000 4500 0375	101.60	114.30	10.50	111.3
UPN 4000 4625 0562	101.60	117.47	15.27	113.5
UPN 4375 5000 0562	111.13	127.00	15.27	123.5
UPN 5000 5750 0625	127.00	146.05	16.87	141.3
UPN 5250 6000 0620	133.36	152.40	16.75	147.5
UPN 6000 7000 0750	152.40	177.80	20.00	172.0
UPN 6250 7000 0620	158.75	177.80	16.75	173.0
UPN 6500 7500 0765	165.10	190.50	20.40	184.0
UPN 7000 8000 0750	177.80	203.20	20.10	197.0
UPN 8000 9000 0750	203.20	228.60	20.00	222.5