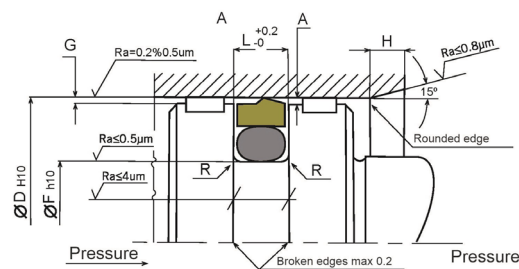
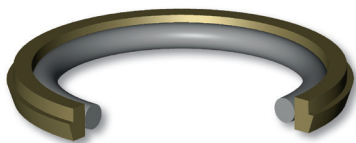


# ISPS



## MEASUREMENT CALCULATION TABLE

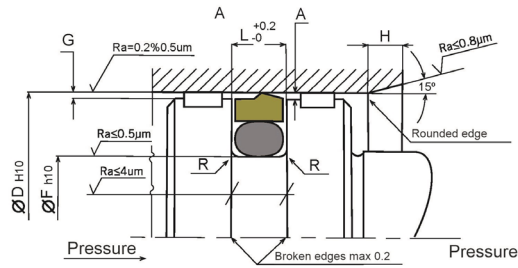
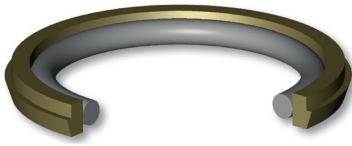
Ø D Piston			Working pressure							
Standard ISP	Light ISP/L	Heavy ISP/P	Ø F h10	L+0.2	Radio R	H	10 Mpa A / G	20 Mpa A / G	40 Mpa A / G	O-ring Ø thick-ness
8÷16.9	17÷26.9	_____	D -4.90	2.20	0.40	2.00	0.30	0.20	0.15	1.78
17÷26.9	27÷59.9	_____	D -7.30	3.20	0.60	2.50	0.40	0.25	0.15	2.62
27÷59.9	60÷199.9	17÷26.9	D -10.70	4.20	1.00	3.50	0.40	0.30	0.20	3.53
60÷199.9	200÷255.9	27÷59.9	D -15.10	6.30	1.30	5.00	0.70	0.40	0.25	5.33
200÷255.9	256÷669.9	60÷199.9	D -20.50	8.10	1.80	6.50	0.80	0.60	0.35	6.99
256÷669.9	670÷999.9	200÷255.9	D -24.00	8.10	1.80	6.50	0.90	0.70	0.40	6.99
670÷999.9	>1000,0	256÷669.9	D -27.30	9.50	2.50	7.50	1.00	0.80	0.50	8.40
>1000,0	_____	670÷999.9	D -38.00	13.80	3.00	7.50	1.20	0.90	0.60	12.00

For pressures >40 Mpa, use in Piston diameter tolerances H8 / F8

MEDIUM	O - RING MATERIAL
Hydraulic oil	NBR (Bruna N)
Engine oil	
Grease	
Other mineral oils	
Water	
Air, dry or lubricated	In temperatures above 120°, use Viton O-ring
Water	EPDM (Ethylene propylene)
Steam	
Synthetic hydraulic fluids	
	Special Compounds

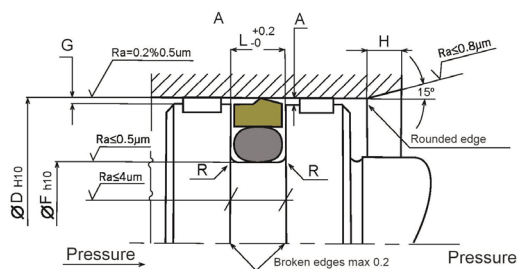
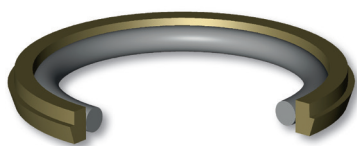
SERIES	
ISPS	Standard
ISPS/L	Light
ISPS/P	Heavy

ISPS



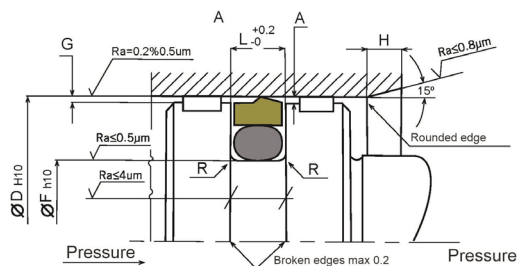
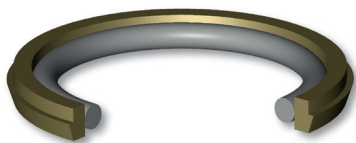
Type	Reference	ØExt.	Øint	Width L+0.2	O-Ring		
ISPS	0090-55	9.00	4.10	2.20	3.68	x	1.78
ISPS	0100-55	10.00	5.10	2.20	4.80	x	1.78
ISPS	0120-55	12.00	7.10	2.20	6.70	x	1.78
ISPS	0140-55	14.00	9.10	2.20	8.75	x	1.78
ISPS	0150-55	15.00	10.10	2.20	9.25	x	1.78
ISPS	0160-55	16.00	11.10	2.20	10.82	x	1.78
ISPS	0180-55	18.00	10.70	3.20	9.19	x	2.62
ISPS/L	0200-55	20.00	15.10	2.20	14.00	x	1.78
ISPS	0200-55	20.00	12.70	3.20	12.37	x	2.62
ISPS	0220-55	22.00	14.70	3.20	13.94	x	2.62
ISPS	0250-55	25.00	17.70	3.20	17.12	x	2.62
ISPS/P	0250-55	25.00	14.30	4.20	13.87	x	3.53
ISPS/P	0280-55	28.00	17.30	4.20	15.47	x	3.53
ISPS/L	0300-55	30.00	22.70	3.20	21.89	x	2.62
ISPS	0300-55	30.00	19.30	4.20	18.66	x	3.53
ISPS/L	0320-55	32.00	24.70	3.20	23.47	x	2.62
ISPS	0320-55	32.00	21.30	4.20	20.22	x	3.53
ISPS	0350-55	35.00	24.30	4.20	23.40	x	3.53
ISPS/L	0400-55	40.00	32.70	3.20	31.42	x	2.62
ISPS	0400-55	40.00	29.30	4.20	28.17	x	3.53
ISPS	0420-55	42.00	31.30	4.20	29.75	x	3.53
ISPS	0450-55	45.00	34.30	4.20	32.92	x	3.53
ISPS	0480-55	48.00	37.30	4.20	36.09	x	3.53
ISPS	0500-55	50.00	39.30	4.20	37.70	x	3.53
ISPS/P	0500-55	50.00	34.90	6.30	32.69	x	5.33
ISPS	0520-55	52.00	41.30	4.20	40.87	x	3.53
ISPS	0550-55	55.00	44.30	4.20	44.04	x	3.53
ISPS	0600-55	60.00	44.90	6.30	43.82	x	5.33
ISPS/L	0630-55	63.00	52.30	4.20	50.39	x	3.53
ISPS	0630-55	63.00	47.90	6.30	46.99	x	5.33
ISPS	0650-55	65.00	49.90	6.30	46.99	x	5.33
ISPS/L	0700-55	70.00	59.30	4.20	56.74	x	3.53
ISPS	0700-55	70.00	54.90	6.30	53.34	x	5.33
ISPS	0750-55	75.00	59.90	6.30	56.52	x	5.33
ISPS	0800-55	80.00	64.90	6.30	62.87	x	5.33
ISPS/P	0800-55	80.00	59.50	8.10	58.00	x	7.00
ISPS	0850-55	85.00	69.90	6.30	69.22	x	5.33
ISPS/P	0850-55	85.00	64.00	8.10	63.00	x	7.00
ISPS	0900-55	90.00	74.90	6.30	72.39	x	5.33
ISPS/P	0900-55	90.00	69.50	8.10	68.00	x	7.00

# ISPS



Type	Reference	ØExt.	Øint	Width L+0.2	O-Ring		
ISPS	0950-55	95.00	79.90	6.30	78.74	x	5.33
ISPS/P	0950-55	95.00	74.50	8.10	73.00	x	7.00
ISPS	1000-55	100.00	84.90	6.30	81.92	x	5.33
ISPS/P	1000-55	100.00	79.50	8.10	78.00	x	7.00
ISPS	1050-55	105.00	89.90	6.30	88.27	x	5.33
ISPS/P	1050-55	105.00	84.50	8.10	83.00	x	7.00
ISPS	1060-55	106.00	90.90	6.30	88.27	x	5.33
ISPS	1100-55	110.00	94.90	6.30	91.44	x	5.33
ISPS/P	1100-55	110.00	89.50	8.10	88.00	x	7.00
ISPS	1150-55	115.00	99.90	6.30	97.79	x	5.33
ISPS/P	1150-55	115.00	94.50	8.10	93.00	x	7.00
ISPS	1200-55	120.00	104.90	6.30	104.14	x	5.33
ISPS/P	1200-55	120.00	99.50	8.10	98.00	x	7.00
ISPS	1250-55	125.00	109.90	6.30	107.32	x	5.33
ISPS/P	1250-55	125.00	104.50	8.10	103.00	x	7.00
ISPS	1300-55	130.00	114.90	6.30	113.67	x	5.33
ISPS/P	1300-55	130.00	109.50	8.10	108.00	x	7.00
ISPS/P	1350-55	135.00	114.50	8.10	113.67	x	6.99
ISPS/P	1400-55	140.00	119.50	8.10	116.84	x	6.99
ISPS/P	1450-55	145.00	124.50	8.10	123.19	x	6.99
ISPS/P	1500-55	150.00	129.50	8.10	126.37	x	6.99
ISPS	1550-55	155.00	139.90	6.30	135.89	x	5.33
ISPS	1600-55	160.00	144.90	6.30	142.24	x	5.33
ISPS/P	1600-55	160.00	139.50	8.10	135.89	x	6.99
ISPS	1650-55	165.00	149.90	6.30	148.49	x	5.33
ISPS/P	1650-55	165.00	144.50	8.10	142.24	x	6.99
ISPS/P	1700-55	170.00	149.50	8.10	145.42	x	6.99
ISPS	1750-55	175.00	159.90	6.30	158.12	x	5.33
ISPS	1800-55	180.00	164.90	6.30	164.47	x	5.33
ISPS/P	1800-55	180.00	159.50	8.10	158.12	x	6.99
ISPS	1900-55	190.00	174.90	6.30	170.82	x	5.33
ISPS/P	1900-55	190.00	169.50	8.10	164.47	x	6.99
ISPS/L	2000-55	200.00	184.90	6.30	183.52	x	5.33
ISPS	2000-55	200.00	179.50	8.10	177.17	x	6.99
ISPS	2050-55	205.00	184.50	8.10	183.52	x	6.99
ISPS	2100-55	210.00	189.50	8.10	183.52	x	6.99
ISPS/L	2200-55	220.00	204.90	6.30	202.57	x	5.33
ISPS	2200-55	220.00	199.50	8.10	196.22	x	6.99
ISPS	2300-55	230.00	209.50	8.10	208.92	x	6.99
ISPS	2400-55	240.00	219.50	8.10	215.27	x	6.99

ISPS



Type	Reference	ØExt.	Øint	Width L+0.2	O-Ring		
ISPS	2500-55	250.00	229.50	8.10	227.97	x	6.99
ISPS	2500-55	250.00	226.00	8.10	227.97	x	6.99
ISPS	2600-55	260.00	236.00	8.10	227.97	x	6.99
ISPS	2700-55	270.00	246.00	8.10	240.67	x	6.99
ISPS	2800-55	280.00	256.00	8.10	253.37	x	6.99
ISPS	3000-55	300.00	276.00	8.10	266.07	x	6.99
ISPS	3060-55	306.00	285.50	8.10	278.77	x	6.99
ISPS	3100-55	310.00	286.00	8.10	278.77	x	6.99
ISPS	3200-55	320.00	296.00	8.10	291.47	x	6.99
ISPS	3300-55	330.00	306.00	8.10	304.17	x	6.99
ISPS	3400-55	340.00	316.00	8.10	316.87	x	6.99
ISPS	3450-55	345.00	324.50	8.10	316.87	x	6.99
ISPS	3500-55	350.00	326.00	8.10	316.87	x	6.99
ISPS	3600-55	360.00	336.00	8.10	329.57	x	6.99
ISPS	3700-55	370.00	346.00	8.10	342.27	x	6.99
ISPS	3800-55	380.00	356.00	8.10	354.97	x	6.99
ISPS	4000-55	400.00	376.00	8.10	367.67	x	6.99
ISPS	4200-55	420.00	396.00	8.10	393.07	x	6.99
ISPS	4300-55	430.00	406.00	8.10	405.26	x	6.99
ISPS	4400-55	440.00	416.00	8.10	405.26	x	6.99
ISPS	4500-55	450.00	426.00	8.10	417.96	x	6.99
ISPS	4800-55	480.00	456.00	8.10	456.06	x	6.99
ISPS	5000-55	500.00	476.00	8.10	468.76	x	6.99
ISPS	5200-55	520.00	499.50	8.10	494.16	x	6.99
ISPS	5400-55	540.00	516.00	8.10	506.86	x	6.99
ISPS	6000-55	600.00	576.00	8.10	557.66	x	6.99
ISPS	6500-55	650.00	626.00	8.10	608.08	x	6.99
ISPS	7000-55	700.00	672.70	9.50	670.00	x	8.40
ISPS	8000-55	800.00	772.70	9.50	770.00	x	8.40
ISPS	8600-55	860.00	832.70	9.50	830.00	x	8.40
ISPS	9000-55	900.00	872.70	9.50	870.00	x	8.40
ISPS	9200-55	920.00	892.70	9.50	890.00	x	8.40
ISPS/L	10000-55	1000.00	972.70	9.50	970.00	x	8.40
ISPS	10000-55	1000.00	962.00	13.80	960.00	x	12.00
ISPS/L	12000-55	1200.00	1172.70	9.50	1170.00	x	8.40
ISPS	12000-55	1200.00	1162.00	13.80	1160.00	x	12.00
ISPS	15000-55	1500.00	1462.00	13.80	1460.00	x	12.00
ISPS	20000-55	2000.00	1962.00	13.80	1960.00	x	12.00
ISPS	27000-55	2700.00	2662.00	13.80	2660.00	x	12.00