

# HYDRAULIC HOSE

## HOSE FOR GENERAL HYDRAULIC OIL PIPING / Z TYPE (for high pressure)

### <Specifications>

- Construction : Tube ----- Synthetic rubber excellent in oil resistance  
Reinforcement ----- High tensile steel wire  
Cover ----- Synthetic rubber excellent in oil and weather resistance
- Fluid temperature : -40°C to +120°C
- Ambient temperature : -40°C to +70°C

### Z-105

Part No.	Nominal Size	I.D. (mm)	O.D. (mm)	Reinforcement	Max Working Pressure (MPa)	Min Burst Pressure (MPa)	Min Bend Radius (mm)	Approx. Weight (g/m)
Z-105-32	32	31.8	47.2	4S	10.5	52.5	230	3,250
Z-105-38	38	38.1	53.7	4S	10.5	52.5	300	3,810
Z-105-50	50	50.8	66.8	4S	10.5	52.5	490	4,930

### Z-140

Part No.	Nominal Size	I.D. (mm)	O.D. (mm)	Reinforcement	Max Working Pressure (MPa)	Min Burst Pressure (MPa)	Min Bend Radius (mm)	Approx. Weight (g/m)
Z-140-32	32	31.8	47.2	4S	14.0	70.0	230	3,250
Z-140-38	38	38.1	53.7	4S	14.0	70.0	300	3,810
Z-140-50	50	50.8	66.8	4S	14.0	70.0	500	4,930

### Z-175

Part No.	Nominal Size	I.D. (mm)	O.D. (mm)	Reinforcement	Max Working Pressure (MPa)	Min Burst Pressure (MPa)	Min Bend Radius (mm)	Approx. Weight (g/m)
Z-175-19	19	19.0	29.9	4S	17.5	87.5	150	1,350
Z-175-25	25	25.4	36.5	4S	17.5	87.5	170	1,710
Z-175-32	32	31.8	47.2	4S	17.5	87.5	230	3,250
Z-175-38	38	38.1	53.7	4S	17.5	87.5	300	3,810
Z-175-50	50	50.8	66.8	4S	17.5	87.5	520	4,930

### Z-210

Part No.	Nominal Size	I.D. (mm)	O.D. (mm)	Reinforcement	Max Working Pressure (MPa)	Min Burst Pressure (MPa)	Min Bend Radius (mm)	Approx. Weight (g/m)
Z-210-15	15	15.9	26.3	4S	21.0	105.0	140	1,150
Z-210-19	19	19.0	29.9	4S	21.0	105.0	150	1,350
Z-210-25	25	25.4	36.5	4S	21.0	105.0	190	1,710
Z-210-32	32	31.8	47.2	4S	21.0	105.0	250	3,250
Z-210-38	38	38.1	53.7	4S	21.0	105.0	330	3,810
Z-210-50	50	50.8	69.2	6S	21.0	105.0	570	6,510

## Z-250

Part No.	Nominal Size	I.D. (mm)	O.D. (mm)	Reinforcement	Max Working Pressure (MPa)	Min Burst Pressure (MPa)	Min Bend Radius (mm)	Approx. Weight (g/m)
Z-250-12	12	12.7	23.2	4S	25.0	125.0	110	990
Z-250-15	15	15.9	26.3	4S	25.0	125.0	140	1,150
Z-250-19	19	19.0	29.9	4S	25.0	125.0	170	1,350
Z-250-25	25	25.4	38.3	4S	25.0	125.0	200	2,310
Z-250-32	32	31.8	47.2	4S	25.0	125.0	280	3,250
Z-250-38	38	38.1	56.5	6S	25.0	125.0	340	5,120
Z-250-50	50	50.8	69.2	6S	25.0	125.0	585	6,510

## Z-280

Part No.	Nominal Size	I.D. (mm)	O.D. (mm)	Reinforcement	Max Working Pressure (MPa)	Min Burst Pressure (MPa)	Min Bend Radius (mm)	Approx. Weight (g/m)
Z-280-09	9	9.5	19.5	4S	28.0	140.0	90	730
Z-280-12	12	12.7	23.2	4S	28.0	140.0	110	990
Z-280-15	15	15.9	26.3	4S	28.0	140.0	140	1,150
Z-280-19	19	19.0	31.5	4S	28.0	140.0	170	1,800
Z-280-25	25	25.4	38.3	4S	28.0	140.0	220	2,310
Z-280-32	32	31.8	49.5	6S	28.0	140.0	320	4,190
Z-280-38	38	38.1	56.5	6S	28.0	112.0	380	5,120
Z-280-50	50	50.8	69.2	6S	28.0	112.0	600	6,510

## Z-315

Part No.	Nominal Size	I.D. (mm)	O.D. (mm)	Reinforcement	Max Working Pressure (MPa)	Min Burst Pressure (MPa)	Min Bend Radius (mm)	Approx. Weight (g/m)
Z-315-09	9	9.5	19.5	4S	31.5	157.5	110	730
Z-315-12	12	12.7	23.2	4S	31.5	157.5	120	990
Z-315-15	15	15.9	27.8	4S	31.5	157.5	170	1,550
Z-315-19	19	19.0	31.5	4S	31.5	157.5	200	1,800
Z-315-25	25	25.4	41.9	6S	31.5	157.5	270	3,350
Z-315-32	32	31.8	49.5	6S	31.5	157.5	370	4,190
Z-315-38	38	38.1	56.5	6S	31.5	126.0	440	5,120
Z-315-50	50	50.8	69.2	6S	31.5	126.0	615	6,510

## Z-350

Part No.	Nominal Size	I.D. (mm)	O.D. (mm)	Reinforcement	Max Working Pressure (MPa)	Min Burst Pressure (MPa)	Min Bend Radius (mm)	Approx. Weight (g/m)
Z-350-09	9	9.5	19.5	4S	35.0	175.0	130	730
Z-350-12	12	12.7	23.2	4S	35.0	175.0	130	990
Z-350-15	15	15.9	27.8	4S	35.0	175.0	190	1,550
Z-350-19	19	19.0	31.5	4S	35.0	175.0	230	1,800
Z-350-25	25	25.4	41.9	6S	35.0	175.0	310	3,350
Z-350-32	32	31.8	49.5	6S	35.0	175.0	420	4,190
Z-350-38	38	38.1	56.5	6S	35.0	140.0	500	5,120
Z-350-50	50	50.8	69.2	6S	35.0	140.0	635	6,510



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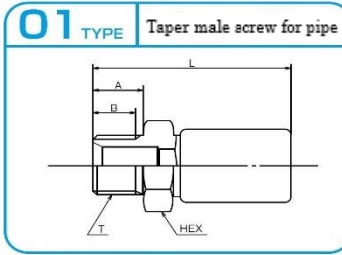
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E-mail: eigyo@togawa.co.jp URL: http://www.togawa.co.jp

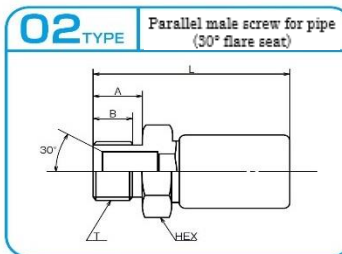
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# HOSE COUPLING

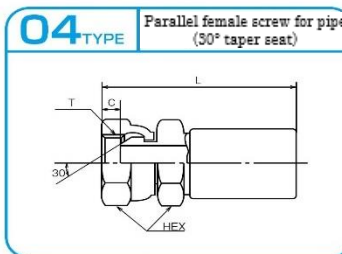
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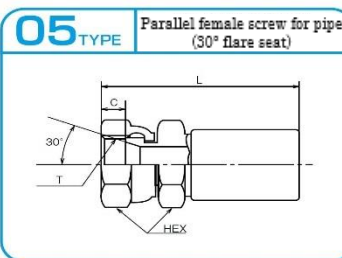
Nominal Size	T Thread	I.D (mm)	A (mm)	B (mm)	L (mm)	HEX (mm)	Part No.	Hose Part No.
9	R 3/8	6.5	15	12	64	22	9-01-L-Z	Z-280~Z-350
12	R 1/2	9	19	16	70	27	12-01-L-Z	Z-250~Z-350
15	R 3/4	12	20	17	83	36	15-01-L-Z	Z-210~Z-280
							15-01-H-Z	Z-315-Z-350
19	R 3/4	14	20	17	95	36	19-01-L-Z	Z-175~Z-250
							19-01-H-Z	Z-280~Z-350
25	R1	20	23	20	103	41	25-01-L-Z	Z-175-Z-210
							25-01-H-Z	Z-250-Z-280
							25-01-S-Z	Z-315-Z-350
32	R1 1/4	26	26	23	135	50	32-01-L-Z	Z-105~Z-250
							32-01-S-Z	Z-280~Z-350
38	R1 1/2	32	26	23	146	60	38-01-L-Z	Z-105~Z-210
							38-01-S-Z	Z-250~Z-350
50	R2	42	30	26	166	70	50-01-L-Z	Z-105~Z-175
							50-01-S-Z	Z-210~Z-350



Nominal Size	T Thread	I.D (mm)	A (mm)	B (mm)	L (mm)	HEX (mm)	Part No.	Hose Part No.
12	G 1/2	9	19	15	70	27	12-02-L-Z	Z-250
15	G 3/4	12	20	16	83	36	15-02-L-Z	Z-210-Z-250
19	G 3/4	14	20	16	95	36	19-02-L-Z	Z-175~Z-250
							25-02-L-Z	Z-175-Z-210
25	G1	20	23	18	103	41	25-02-H-Z	Z-250
							32-02-L-Z	Z-105~Z-250
32	G1 1/4	26	26	21	135	50	38-02-L-Z	Z-105~Z-210
							38-02-S-Z	Z-250
50	G2	42	30	25	166	70	50-02-L-Z	Z-105~Z-175
							50-02-S-Z	Z-210-Z-250



Nominal Size	T Thread	I.D (mm)	C (mm)	L (mm)	HEX (mm)	Part No.	Hose Part No.
12	G 1/2	9	7	73	27	12-04-L-Z	Z-250
15	G 3/4	12	8	88	36	15-04-L-Z	Z-210-Z-250
19	G 3/4	14	8	100	36	19-04-L-Z	Z-175~Z-250
						25-04-L-Z	Z-175-Z-210
25	G1	20	9	107	41	25-04-H-Z	Z-250
						32-04-L-Z	Z-105~Z-250
32	G1 1/4	26	13	138	50	38-04-L-Z	Z-105~Z-210
						38-04-S-Z	Z-250
50	G2	42	16	173	70	50-04-L-Z	Z-105~Z-75
						50-04-S-Z	Z-210-Z-250



Nominal Size	T Thread	I.D (mm)	C (mm)	L (mm)	HEX (mm)	Part No.	Hose Part No.
12	G 1/2	9	12	73	27	12-05-L-Z	Z-250
15	G 3/4	12	14	88	36	15-05-L-Z	Z-210-Z-250
19	G 3/4	14	14	100	36	19-05-L-Z	Z-175~Z-250
						25-05-L-Z	Z-175-Z-210
25	G1	20	14	107	41	25-05-H-Z	Z-250
						32-05-L-Z	Z-105~Z-250
32	G1 1/4	26	16	138	50	38-05-L-Z	Z-105~Z-210
						38-05-S-Z	Z-250
50	G2	42	19	173	70	50-05-L-Z	Z-105~Z-175
						50-05-S-Z	Z-210-Z-250