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Heavy Duty 360°

New Generation Ball Bearing Rotary Fittings



Parker

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Customer requirements!

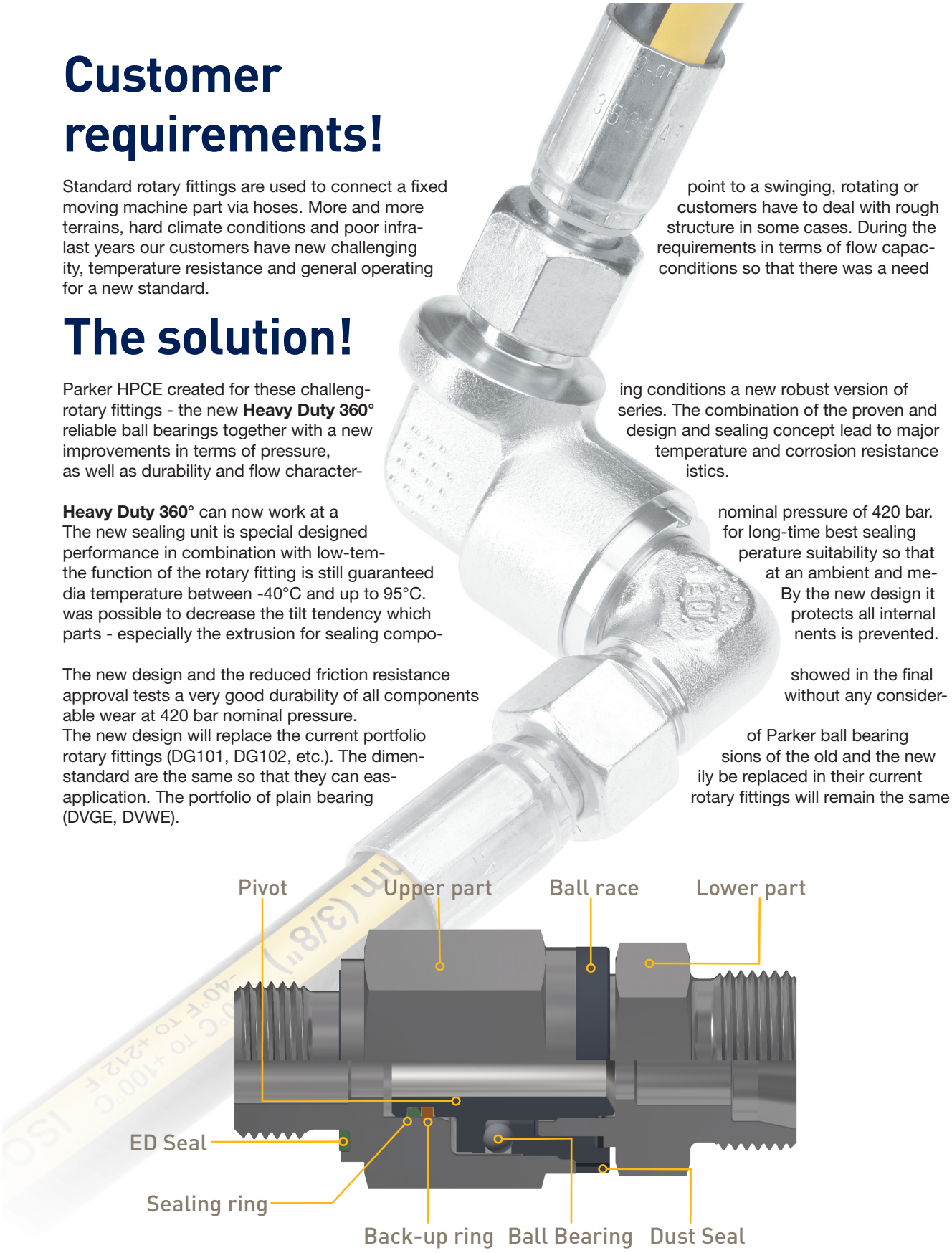
Standard rotary fittings are used to connect a fixed point to a swinging, rotating or moving machine part via hoses. More and more customers have to deal with rough terrains, hard climate conditions and poor infrastructure in some cases. During the last years our customers have new challenging requirements in terms of flow capacity, temperature resistance and general operating conditions so that there was a need for a new standard.

The solution!

Parker HPCE created for these challenging conditions a new robust version of rotary fittings - the new **Heavy Duty 360°** series. The combination of the proven and reliable ball bearings together with a new design and sealing concept lead to major improvements in terms of pressure, temperature and corrosion resistance as well as durability and flow characteristics.

Heavy Duty 360° can now work at a nominal pressure of 420 bar.
The new sealing unit is special designed for long-time best sealing performance in combination with low-temperature suitability so that the function of the rotary fitting is still guaranteed at an ambient and media temperature between -40°C and up to 95°C. By the new design it was possible to decrease the tilt tendency which protects all internal parts - especially the extrusion for sealing components is prevented.

The new design and the reduced friction resistance showed in the final approval tests a very good durability of all components without any considerable wear at 420 bar nominal pressure.
The new design will replace the current portfolio of Parker ball bearing rotary fittings (DG101, DG102, etc.). The dimensions of the old and the new standard are the same so that they can easily be replaced in their current application. The portfolio of plain bearing rotary fittings will remain the same (DVGE, DVWE).



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Key facts

Features

- New sealing concept (Fitting dimensions unchanged)
- Working pressure up to 420 bar PN
- Temp. range: -40°C up to +95°C
- Size 06 - 38 // DN 04 - 26
- 24° DIN portfolio - SAE on request
- Improved corrosion resistance
- Improved media resistance

Customer Value

- Avoidance of torsion
- Avoidance of narrow bend radii for hose assemblies
- Longer lifetime of hydraulic system
- Avoidance of downtime
- More design flexibility of hydraulic system

Application

- Mobile hydraulics
- Machine construction
- Maintenance and repair
- Industrial Equipment
- **Or generally wherever a hose assembly must be connected to a machine part which itself rotates**

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Applications

Mobile Cranes



- e.g. at the boom of mobile cranes or maritime cranes

Trains



- e.g. at the transition from the bogie to the wagon



Construction Equipment



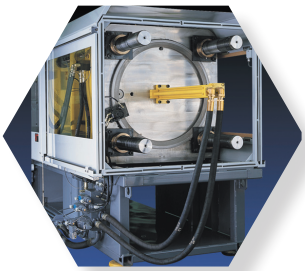
- e.g. to connect the excavator final drive/ travel motor and the valve block and for rotable or swivelling driver's seat

Trucks



- e.g. for construction trucks at the crane pillar at the transition to the loading crane

Machine Tools



- e.g. at the milling head or milling spindle or at the basket changer for changing the tools

Agriculture



- e.g. at the boom or head for mobile forestry machines like harvester or skidder

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Technical Data Sheet

Number of revolutions and starting torques

Tube OD	Nominal Diameter DN mm	Permissible number of rev. (rpm.) for HD360 rotary fittings under a working pressure of							Initial torque at 250 bar/ Nm
		25 bar	64 bar	100 bar	160 bar	250 bar	350 bar	420 bar	
6	5.0	1.600	800	400	200	150	90	90	max. 0.5
8									
12	9.5	1.000	600	300	180	120	90	90	max. 3.0
16									
20	16.0	500	250	120	60	40	20	20	max. 3.5
25									
30	26.0	300	150	100	50	20	10	10	max. 5.0
38									

- **Application:**
  Connecting a fixed point to a rotating, swinging or moving machine part via hoses.
  To prevent torsion and to avoid small hose radii.

- **Flow media:**
  Hydraulic oils and lubricants on mineral oil base and for hydraulic fluids HETG and HEES.
  Also for pneumatic applications and gases.
  Not suitable for corrosive and HFC-fluids.

- **Surface:**
  Cr(VI)-free

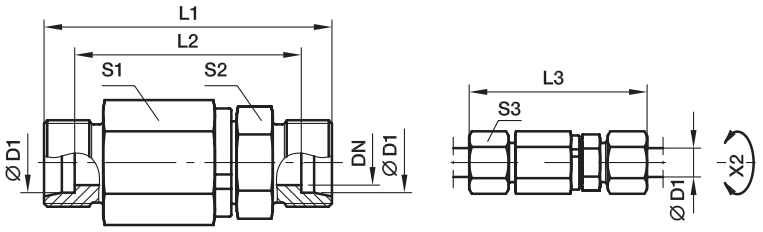
- **Assembly instructions:**
  The life of a rotary fitting depends considerably on a stress-free line connection.
  Therefore the direct connection with tubes is to be avoided.
  For connection of hoses the use of swivel nut fittings (DIN 3865) is recommended.
  We recommend short, straight hose lines (free hose length approx. 5x hose O.D.)
  Thus shocks, vibrations etc. are absorbed.

- **Flow rate**
  Recommended flow rate up to 8 m/s. Higher value possible according to the individual application.

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DG 101 Straight ball bearing rotary union

EO 24° cone end / EO 24° cone end

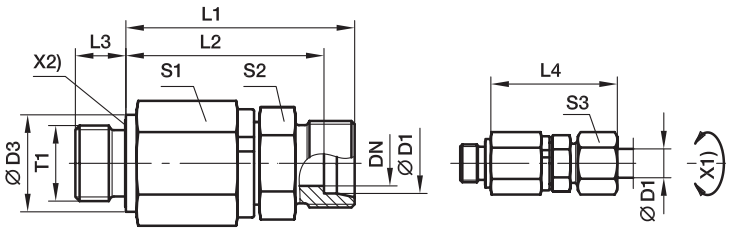


X2) Axis

D1	DN	L1	L2	L3	S1	S2	S3	Weight g/1 piece	Order code	PN bar
06	5.0	61	47	76	22	17	17	113	**DG101/06SHDOMDCF**	420
08	5.0	61	47	76	22	17	19	118	**DG101/08SHDOMDCF**	420
12	9.5	72	57	89	30	24	24	258	**DG101/12SHDOMDCF**	420
16	9.5	74	57	93	30	27	30	264	**DG101/16SHDOMDCF**	420
20	16.0	92	71	114	41	36	36	578	**DG101/20SHDOMDCF**	420
25	16.0	96	72	120	41	41	46	652	**DG101/25SHDOMDCF**	420
30	26.0	109	82	135	60	46	50	1321	**DG101/30SHDOMDCF**	420
38	26.0	104	82	143	60	55	60	1509	**DG101/38SHDOMDCF**	420

DG 102-R Straight male stud ball bearing rotary union

Male BSPP thread - ED-seal (ISO 1179) / EO 24° cone end

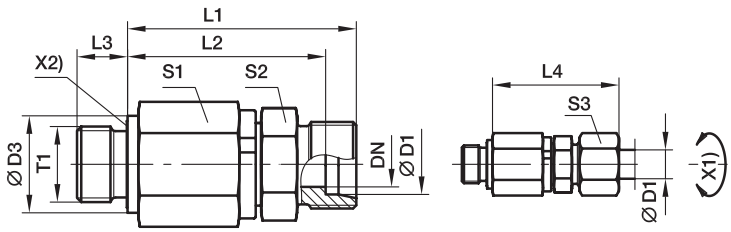


X1) Axis
X2) ED-sealing

D1	T1	DN	D3	L1	L2	L3	L4	S1	S2	S3	Weight g/1 piece	Order code	PN bar
06	G 1/4 A	5.0	19	49	42.0	12	57.0	22	17	17	110	**DG102/06SRHDOMDCF**	420
08	G 1/4 A	5.0	19	49	42.0	12	57.0	22	17	19	116	**DG102/08SRHDOMDCF**	420
12	G 3/8 A	9.5	24	60	52.5	12	69.0	30	24	24	243	**DG102/12SRHDOMDCF**	420
16	G 1/2 A	9.5	27	60	51.5	14	70.0	30	27	30	256	**DG102/16SRHDOMDCF**	420
20	G 3/4 A	16.0	32	76	65.5	16	87.5	41	36	36	558	**DG102/20SRHDOMDCF**	420
25	G 1A	16.0	40	78	66.0	18	90.5	41	41	46	853	**DG102/25SRHDOMDCF**	420
30	G 1 1/4 A	26.0	50	89	75.5	20	102.0	60	46	50	1312	**DG102/30SRHDOMDCF**	420
38	G 1 1/2 A	26.0	55	92	76.0	22	107.0	60	55	60	1494	**DG102/38SRHDOMDCF**	420

DG 102-M Straight male stud ball bearing rotary union

Male metric thread - ED-seal (ISO 9974) / EO 24° cone end

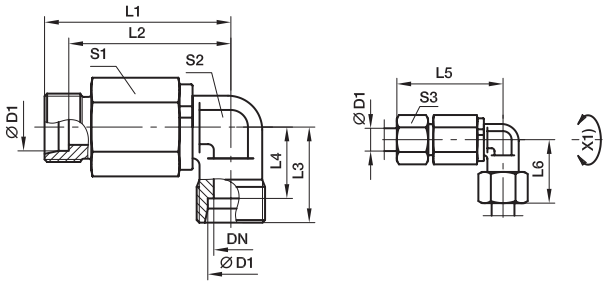


X1) Axis
X2) ED-sealing

D1	T1	DN	D3	L1	L2	L3	L4	S1	S2	S3	Weight g/1 piece	Order code	PN bar
06	M 14x1.5	5.0	19	49	42.0	12	57.0	22	17	17	110	**DG102/06SMHDOMDCF**	420
08	M 14x1.5	5.0	19	49	42.0	12	57.0	22	17	19	116	**DG102/08SMHDOMDCF**	420
12	M 18x1.5	9.5	24	60	52.5	12	69.0	30	24	24	243	**DG102/12SMHDOMDCF**	420
16	M 22x1.5	9.5	27	60	51.5	14	70.0	30	27	30	256	**DG102/16SMHDOMDCF**	420
20	M 27x2.0	16.0	32	76	65.5	16	87.5	41	36	36	558	**DG102/20SMHDOMDCF**	420
25	M 33x2.0	16.0	40	78	66.0	18	90.5	41	41	46	853	**DG102/25SMHDOMDCF**	420
30	M 42x2.0	26.0	50	89	75.5	20	102.0	60	46	50	1312	**DG102/30SMHDOMDCF**	420
38	M 48x2.0	26.0	55	92	76.0	22	107.0	60	55	60	1494	**DG102/38SMHDOMDCF**	420

DG 103 Elbow ball bearing rotary union

EO 24° cone end / EO 24° cone end

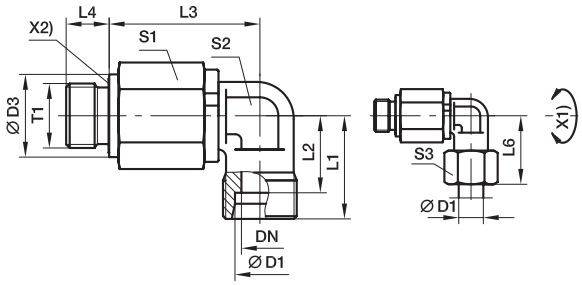


X1) Axis

D1	DN	L1	L2	L3	L4	L5	L6	S1	S2	S3	Weight g/1 piece	Order code	PN bar
06	5.0	51.5	59.0	23	16.0	44.5	16.0	22	17	17	134	**DG103/06SHDOMDCF**	420
08	5.0	51.5	59.0	24	17.0	44.5	17.0	22	17	19	141	**DG103/08SHDOMDCF**	420
12	9.5	63.0	72.0	29	21.5	55.5	21.5	30	22	24	296	**DG103/12SHDOMDCF**	420
16	9.5	63.0	73.0	33	24.5	54.5	24.5	30	22	30	298	**DG103/16SHDOMDCF**	420
20	16.0	83.0	94.5	37	26.5	72.5	26.5	41	36	36	772	**DG103/20SHDOMDCF**	420
25	16.0	83.0	95.5	42	30.0	71.0	30.0	41	36	46	803	**DG103/25SHDOMDCF**	420
30	26.0	102.5	116.0	49	35.5	89.0	35.5	60	50	50	1722	**DG103/30SHDOMDCF**	420
38	26.0	102.5	117.0	57	41.0	86.5	41.0	60	50	60	1931	**DG103/38SHDOMDCF**	420

DG 104-R Elbow male stud ball bearing rotary union

Male BSPP thread - ED-seal (ISO 1179) / EO 24° cone end

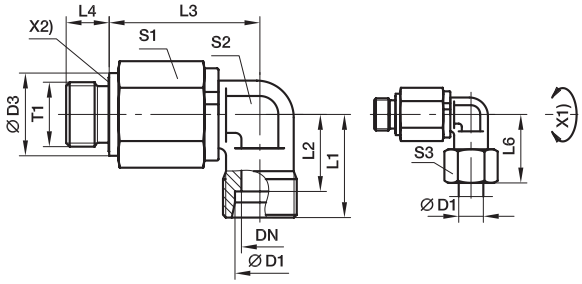


X1) Axis
X2) ED-sealing

D1	T1	DN	D3	L1	L2	L3	L4	L6	S1	S2	S3	Weight g/1 piece	Order code	PN bar
06	G 1/4 A	5.0	19	23	16.0	39.5	12	31	22	17	17	131	**DG104/06SRHDOMDCF**	420
08	G 1/4 A	5.0	19	24	17.0	39.5	12	32	22	17	19	135	**DG104/08SRHDOMDCF**	420
12	G 3/8 A	9.5	22	29	21.5	51.0	12	38	30	22	24	284	**DG104/12SRHDOMDCF**	420
16	G 1/2 A	9.5	27	33	24.5	49.0	14	43	30	22	30	284	**DG104/16SRHDOMDCF**	420
20	G 3/4 A	16.0	32	37	26.5	67.0	16	48	41	36	36	752	**DG104/20SRHDOMDCF**	420
25	G 1 A	16.0	40	42	30.0	65.0	18	54	41	36	46	789	**DG104/25SRHDOMDCF**	420
30	G 1 1/4 A	26.0	50	49	35.5	82.5	20	62	60	50	50	1713	**DG104/30SRHDOMDCF**	420
38	G 1 1/2 A	26.0	55	57	41.0	80.5	22	72	60	50	60	1915	**DG104/38SRHDOMDCF**	420

DG 104-M Elbow male stud ball bearing rotary union

Male metric thread - ED-seal (ISO 9974) / EO 24° cone end

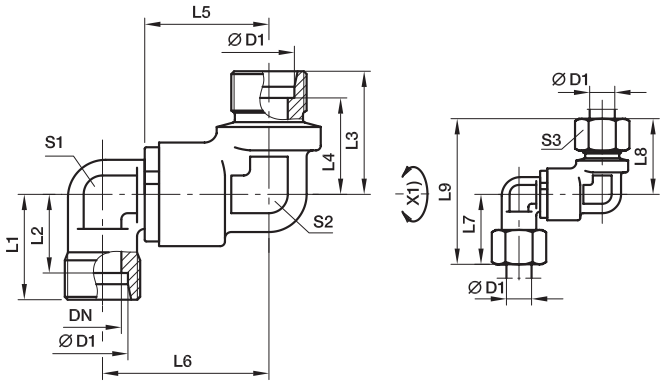


X1) Axis
X2) Eolastic -sealing

D1	T1	DN	D3	L1	L2	L3	L4	L6	S1	S2	S3	Weight g/1 piece	Order code	PN bar
06	M 14x1.5	5.0	19	23	16.0	39.5	12	31	22	17	17	132	**DG104/06SMHDOMDCF**	420
08	M 14x1.5	5.0	19	24	17.0	39.5	12	32	22	17	19	136	**DG104/08SMHDOMDCF**	420
12	M 18x1.5	9.5	22	29	21.5	51.0	12	38	30	22	24	286	**DG104/12SMHDOMDCF**	420
16	M 22x1.5	9.5	27	33	24.5	49.0	14	43	30	22	30	287	**DG104/16SMHDOMDCF**	420
20	M 27x2.0	16.0	32	37	26.5	67.0	16	48	41	36	36	752	**DG104/20SMHDOMDCF**	420
25	M 33x2.0	16.0	40	42	30.0	65.0	18	54	41	36	46	788	**DG104/25SMHDOMDCF**	420
30	M 42x2.0	26.0	50	49	35.5	82.5	20	62	60	50	50	1717	**DG104/30SMHDOMDCF**	420
38	M 48x2.0	26.0	55	57	41.0	80.5	22	72	60	50	60	1913	**DG104/38SMHDOMDCF**	420

DG 105 Double elbow ball bearing rotary union

EO 24° cone end / EO 24° cone end

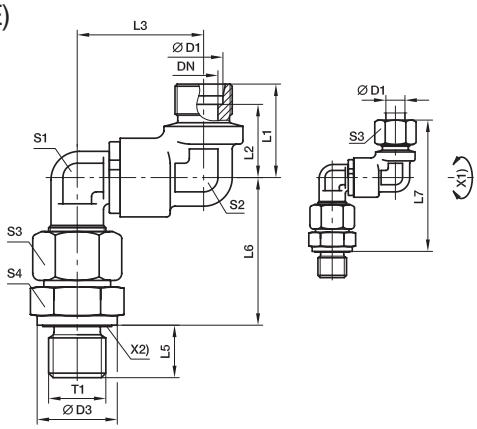


X1) Axis

D1	DN	L1	L2	L3	L4	L5	L6	L7	L8	L9	S1	S2	S3	Weight g/1 piece	Order code	PN bar
12	9.5	39.5	26.5	43	21.5	38	81	53.0	24	22	24	29	50.5	384	**DG105/12SHDOMDCF**	420
16	9.5	39.5	25.5	44	24.5	43	87	53.0	30	22	24	33	52.5	377	**DG105/16SHDOMDCF**	420
20	16.0	56.5	39.5	61	26.5	48	109	76.0	36	36	32	37	71.5	1015	**DG105/20SHDOMDCF**	420
25	16.0	56.5	38.0	62	30.0	54	116	76.0	46	36	32	42	74.0	1034	**DG105/25SHDOMDCF**	420
30	26.0	65.0	44.5	71	35.5	62	133	92.5	50	50	50	49	84.5	2344	**DG105/30SHDOMDCF**	420
38	26.0	65.0	42.0	73	41.0	72	145	92.5	60	50	50	57	89.0	2485	**DG105/38SHDOMDCF**	420

DG 106-R Double elbow male stud ball bearing rotary union

Male BSPP thread - ED-seal (ISO 1179) / EO 24° cone end
(Adjustable at male thread axis, consisting of DG105 + EGE)

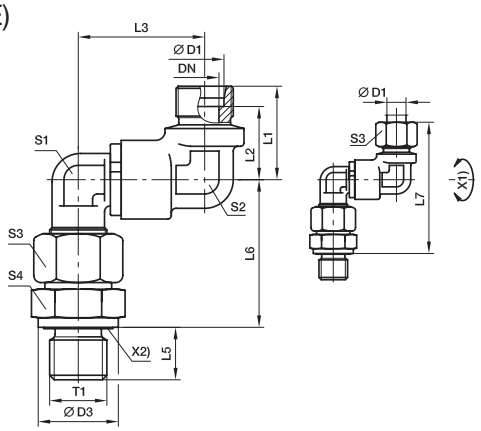


X1) Axis
X2) ED-sealing

D1	T1	DN	D3	L1	L2	L3	L5	L6	L7	S1	S2	S3	S4	Weight g/1 piece	Order code	PN bar
12	G 3/8 A	9.5	24	34	26.5	53.0	12	55.5	99	24	22	24	22	484	**DG106/12SRHDOMDCF**	420
16	G 1/2 A	9.5	27	34	25.5	53.0	14	61.5	105	24	24	30	27	547	**DG106/16SRHDOMDCF**	420
20	G 3/4 A	16.0	32	50	39.5	76.0	16	69.5	131	36	32	36	32	1288	**DG106/20SRHDOMDCF**	420
25	G 1 A	16.0	40	50	38.0	76.0	18	78.0	140	36	32	46	41	1528	**DG106/25SRHDOMDCF**	420
30	G 1 1/4 A	26.0	50	58	44.5	92.5	20	86.5	158	50	50	50	50	3004	**DG106/30SRHDOMDCF**	420
38	G 1 1/2 A	26.0	55	58	42.0	92.5	22	101.0	174	50	50	60	55	3419	**DG106/38SRHDOMDCF**	420

DG 106-M Double elbow male stud ball bearing rotary union

Male metric thread - ED-seal (ISO 9974) / EO 24° cone end
(Adjustable at male thread axis, consisting of DG105 + EGE)

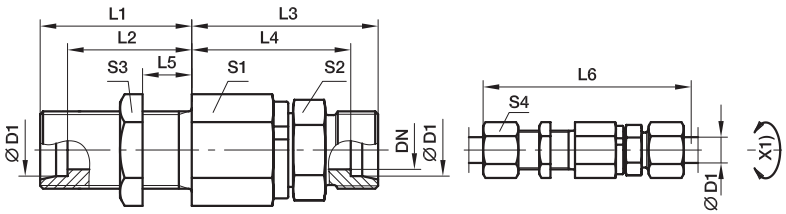


X1) Axis
X2) ED-sealing

D1	T1	DN	D3	L1	L2	L3	L5	L6	L7	S1	S2	S3	S4	Weight g/1 piece	Order code	PN bar
12	M 18x1.5	9.5	24	34	26.5	53.0	12	55.5	99	24	22	24	22	495	**DG106/12SMHDOMDCF**	420
16	M 22x1.5	9.5	27	34	25.5	53.0	14	61.5	105	24	24	30	27	551	**DG106/16SMHDOMDCF**	420
20	M 27x2.0	16.0	32	50	39.5	76.0	16	69.5	131	36	32	36	32	1289	**DG106/20SMHDOMDCF**	420
25	M 33x2.0	16.0	40	50	38.0	76.0	18	78.0	140	36	32	46	41	1532	**DG106/25SMHDOMDCF**	420
30	M 42x2.0	26.0	50	58	44.5	92.5	20	86.5	158	50	50	50	50	3007	**DG106/30SMHDOMDCF**	420
38	M 48x2.0	26.0	55	58	42.0	92.5	22	101.0	174	50	50	60	55	3441	**DG106/38SMHDOMDCF**	420

DG 107 Straight bulkhead ball bearing rotary union

EO 24° cone end / EO 24° cone end

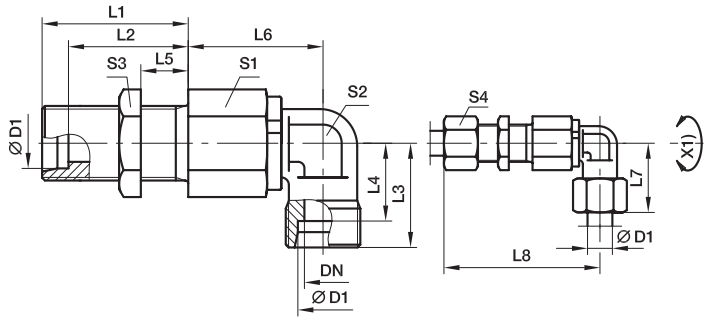


X1) Axis

D1	DN	T1	L1	L2	L3	L4	L5	L6	S1	S2	S3	S4	Weight g/1 piece	Order code	PN bar
06	5.0	M 14x1.5	23	16.0	49	42.0	05	87	22	17	19	17	134	**DG107/06SHDOMDCF**	420
08	5.0	M 16x1.5	23	16.0	49	42.0	05	87	22	17	22	19	143	**DG107/08SHDOMDCF**	420
12	9.5	M 20x1.5	23	15.5	60	52.5	05	100	30	24	27	24	291	**DG107/12SHDOMDCF**	420
16	9.5	M 24x1.5	26	17.5	60	51.5	05	105	30	27	32	30	328	**DG107/16SHDOMDCF**	420
20	16.0	M 30x2.0	39	28.5	76	65.5	15	137	41	36	41	36	710	**DG107/20SHDOMDCF**	420
25	16.0	M 36x2.0	42	30.0	78	66.0	15	144	41	41	46	46	847	**DG107/25SHDOMDCF**	420
30	26.0	M 42x2.0	44	30.5	89	75.5	15	159	60	46	50	50	1533	**DG107/30SHDOMDCF**	420
38	26.0	M 52x2.0	47	31.0	92	76.0	15	168	60	55	65	60	1930	**DG107/38SHDOMDCF**	420

DG 108 Elbow bulkhead ball bearing rotary union

EO 24° cone end / EO 24° cone end

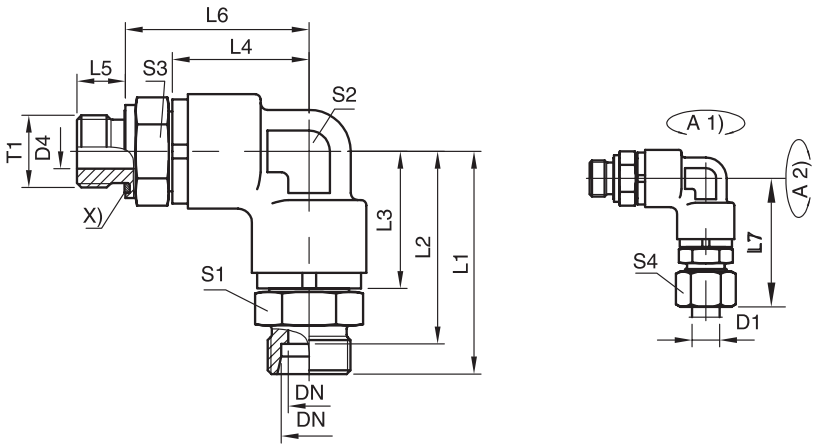


X1) Axis

D1	DN	T1	L1	L2	L3	L4	L5	L6	L7	L8	S1	S2	S3	S4	Weight g/1 piece	Order code	PN bar
06	5.0	M 14x1.5	23	16.0	23	16.0	05	39.5	31	70.0	22	17	19	17	154	**DG108/06SHDOMDCF**	420
08	5.0	M 16x1.5	23	16.0	23	17.0	05	39.5	32	70.0	22	17	22	19	166	**DG108/08SHDOMDCF**	420
12	9.5	M 20x1.5	23	15.5	29	21.5	05	51.0	38	83.0	30	22	27	24	333	**DG108/12SHDOMDCF**	420
16	9.5	M 24x1.5	26	17.5	33	24.5	05	49.0	43	85.0	30	22	32	30	354	**DG108/16SHDOMDCF**	420
20	16.0	M 30x2.0	39	28.5	37	26.5	15	67.0	48	117.5	41	36	41	36	904	**DG108/20SHDOMDCF**	420
25	16.0	M 36x2.0	42	30.0	42	30.0	15	65.0	54	119.5	41	36	46	45	999	**DG108/25SHDOMDCF**	420
30	26.0	M 42x2.0	44	30.5	49	35.5	15	82.5	62	140.0	60	50	50	50	1935	**DG108/30SHDOMDCF**	420
38	26.0	M 52x2.0	47	31.0	57	41.0	15	80.5	72	142.0	60	50	65	60	2351	**DG108/38SHDOMDCF**	420

DG 208-R Double elbow male stud ball bearing rotary union

Male BSPP thread - ED-seal (ISO 1179) / EO 24° cone end



A1) Axis
A2) Axis
X) ED-Eolastic

D1	T1	DN	L1	L2	L3	L4	L5	L6	L7	S1	S2	S3	S4	Order code	PN bar
12	G 3/8 A	08	61.8	54.3	39.8	39.8	12	52.5	70.3	24	24	24	24	**DG208/12SRHDOMDCF**	420
16	G 1/2 A	12	64.5	56.5	39.8	39.8	14	53.0	73.5	27	24	27	30	**DG208/16SRHDOMDCF**	420
20	G 3/4 A	16	84.5	74.5	56.5	56.5	16	71.5	95.5	36	32	36	36	**DG208/20SRHDOMDCF**	420
25	G 1 A	16	89.5	77.5	56.5	56.5	18	74.5	100.5	41	32	41	46	**DG208/25SRHDOMDCF**	420
38	G 1 1/2 A	32	104.0	88.0	65.3	65.3	22	85.3	121.5	55	50	55	60	**DG208/38SRHDOMDCF**	420

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