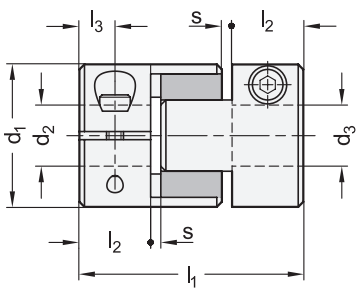
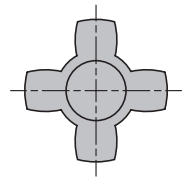
Elastomer Jaw Couplings

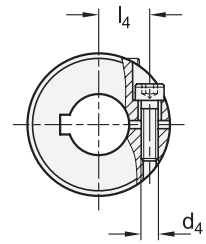
Aluminum, with Clamping Hub

d_1 = 14...30



Coupling spider



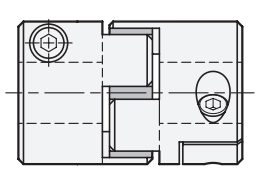


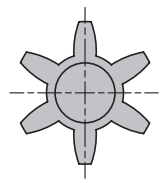
2 Bore code

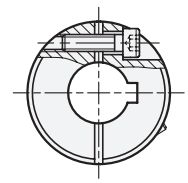
B Without keyway

K With keyway
DIN 6885-1 P9
(from d_1 = 30)

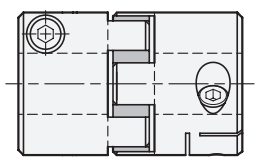
d_1 = 40

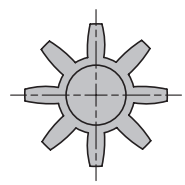


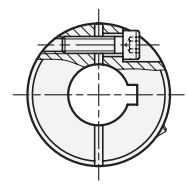




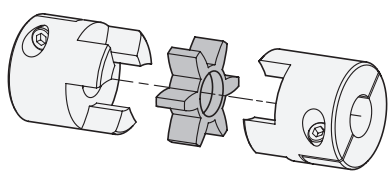
d_1 = 55







Assembly instruction



1

d_1	d_2 - d_3 H8 recommended shaft tolerance h7									
14	3-3	3-4	3-5	3-6	4-4	4-5	4-6	5-5	5-6	6-6
20	5-5	5-6	5-8	6-6	6-8	8-8	-	-	-	-
30	8-8	8-10	8-12	8-14	10-10	10-12	10-14	12-12	12-14	14-14
40	12-12	12-14	12-15	12-16	14-14	14-15	14-16	15-15	15-16	16-16
55	18-18	18-19	18-20	18-25	19-19	19-20	19-25	20-20	20-25	25-25

d_1	d_4		l_1	l_2 recommended shaft insertion depth	l_3	l_4		s recommended installation spacing
14	M 2	M 1,6*	22	7	3,5	4	5*	1
20	M 2,5	-	30	10	5	6,5	-	1
30	M 4	M 3**	35	11	5,5	10	11**	1,5
40	M 5	-	66	25	8,5	14	-	2
55	M 6	-	78	30	10,5	20	-	2

* for bore d_2 / d_3 = 6 ** for bore d_2 / d_3 = 14

d_1	Coupling spider	Shore hardness coupling spider	Rated torque in Nm	Max. torque in Nm	Max. speed (min^{-1})	Moment of inertia in kgm^2	Static torsional stiffness in Nm/rad	Max. shaft misalignment		
								Lateral in mm	Axial in mm	Angular in °
14	BS	80A	0,7	1,4	45.000	$2,0 \times 10^{-7}$	8	0,15	0,6	1
	WS	92A	1,2	2,4	45.000	$2,0 \times 10^{-7}$	14	0,1	0,6	1
	RS	98A	2	4	45.000	$2,0 \times 10^{-7}$	22	0,1	0,6	1
20	BS	80A	1,8	3,6	31.000	$1,1 \times 10^{-6}$	16	0,2	0,8	1
	WS	92A	3	6	31.000	$1,1 \times 10^{-6}$	29	0,15	0,8	1
	RS	98A	5	10	31.000	$1,1 \times 10^{-6}$	55	0,1	0,8	1
30	BS	80A	4	8	21.000	$6,2 \times 10^{-6}$	46	0,2	1	1
	WS	92A	7,5	15	21.000	$6,2 \times 10^{-6}$	73	0,15	1	1
	RS	98A	12,5	25	21.000	$6,2 \times 10^{-6}$	130	0,1	1	1
40	BS	80A	4,9	9,8	15.000	$3,7 \times 10^{-5}$	380	0,15	1,2	1
	WS	92A	10	20	15.000	$3,7 \times 10^{-5}$	570	0,1	1,2	1
	RS	98A	17	34	15.000	$3,7 \times 10^{-5}$	1200	0,1	1,2	1
55	BS	80A	17	34	11.000	$1,6 \times 10^{-4}$	1400	0,2	1,4	1
	WS	92A	35	70	11.000	$1,6 \times 10^{-4}$	1600	0,15	1,4	1
	RS	98A	60	120	11.000	$1,6 \times 10^{-4}$	2600	0,1	1,4	1

Specification

	5	6
Hub		
Aluminum	**AL**	
Anodized, natural color		
Coupling spider		
Thermoplastic polyurethane (TPU)		
• Operating temperature -20 °C to +60 °C		
• Hardness		
- 80 Shore A, blue	**BS**	
- 92 Shore A, white	**WS**	
- 98 Shore A, red	**RS**	
Socket cap screws ISO 4762		
Steel, blackened		

RoHS

Elastomer jaw couplings GN 2240 can transmit very high torques while compensating for shaft misalignments and runout tolerances. They are preferred in applications where the focus lies on pure torque and power transmission.
The choice of three coupling spiders with different hardness values allows the properties of the coupling to be optimally matched to the specific requirements. The clamping hubs and simple plug-in installation make jaw couplings very easy to assemble.
With the bore code K, the keyway is always integrated into both bores d_2 and d_3.

Technical Information	Page
Overview of Couplings	QVX
General Information for Couplings	QVX
Mounting Information for Couplings	QVX
Technical Information for Couplings	QVX
Keyways DIN 6885-1	QVX
ISO Fundamental Tolerances	QVX
Plastic Characteristics	QVX

Accessory

GN 2240.1 Coupling Spiders	QVX

How to order

1 2 3 4 5
GN 2240-30-K10-10-AL-BS

1	d_1
2	Bore code
3	d_2
4	d_3
5	Material
6	Hardness