

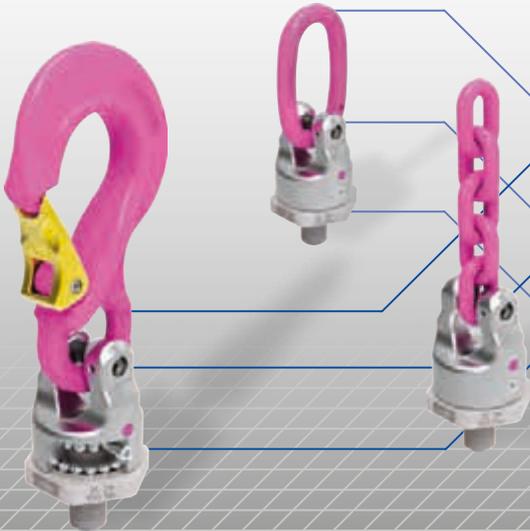


Easy to rotate and always the right connection

Rotating 360°, pivoting 230°

Universal, unmistakable VIP connection for chain, hook and eye

Double ball bearing for turning/rotating operations



PP-S // -B // -VIP

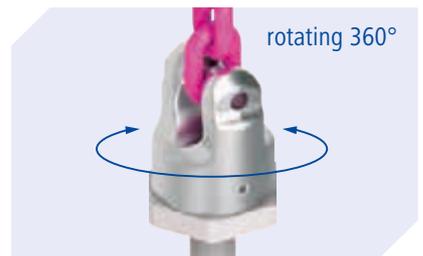
PowerPoint®-Star /-B-Ring connect. /-VIP-chain connect.



can be combined with most commercial lifting means



double ball bearing



rotating 360°

PP-S

Universal hook connection for ring assemblies, round slings, wire ropes, hook assemblies

- Can be combined with most commercial lifting means without additional connecting element.
- PP-S, PP-B, PP-VIP: Double ball bearing is the optimal solution for turning and flipping operations under full load.
- Lifting points rotates 360°.

PP-B

Ring connection for hook assemblies



PP-VIP

direct VIP-chain connection

- Clear marking of the minimum WLL for all loading directions.
- So-PP-S, So-PP-B, So-PP-VIP: Variable Gewindelängen
- Available as:
 - Standard Metric Thread (DIN EN 13)
 - Coarse Pitch Thread UNC (ANSI B 1.1)

Product features

PowerPoint®-Star / -Ring connection for hook assemblies / -VIP-chain connection // So-PP

- ✓ **Large distance between bolt-on surface and load** to avoid damage.
- ✓ **Rotatable at nominal WLL, 90° to the bolt-on direction.** Lowest kinking possibility due to cardan joint.
- ✓ **Suspension ring with enlarged pivoting area.**
- ✓ PP-S, PP-B, PP-VIP: Marking with requested torque moment and nominal WLL with a safety factor of 4:1 (MRL 2006/42/EG) and 5:1 (ASME B 30.26).
- ✓ So-PP-S, So-PP-B, So-PP-VIP: Non removable special bolt (this reduces the risk of non standard bolts).
- ✓ So-PP-S, So-PP-B, So-PP-VIP: Variable thread lengths are available for use of threaded holes and through hole fixtures.



Product features / Application-specific features PP / So-PP

- ✓ So-PP-S, So-PP-B, So-PP-VIP: For permanent installation of the lifting point for through hole fixtures we recommend the securing nut acc. to DIN 980-V (standard distribution, washer included), for variable installations with just one lifting action please use collar nut acc. to DIN 6331 (available upon request). For special thread lengths in metric sizes, lock nuts (DIN 980-V crack tested) with washer are available. Collar nuts (DIN 6331, crack inspected) optionally on request.
- ✓ PP-S, PP-B, PP-VIP: Tested and certified by DGUV
- Testing specifications: GS-OA-15-04:2012-05
Certificate-No.: OA 1451017
- So-PP-S, So-PP-B, So-PP-VIP: Component according to the test criterias of BG/DGUV "GS-OA-15-04"
- Significant product characteristics of the PP-S, PP-B and PP-VIP are subject to property right claims.
- ✓ PP-VIP, So-PP-VIP: Universal and non-mix-up clevis connection for chains, hooks and eye.
- ✓ PP-S, So-PP-S: The shape of the hook tip avoids unintentional attachment into small holes and tip loading. Robust, forged safety latch.
- ✓ Quick and easy installation with just one bolt connection.
- ✓ Hand tightening with appropriate wrench is sufficient for a singular lift.
- ✓ Please observe torque instructions when lifting point is permanently installed resp. at constant swivelling operations and tilting/ turning actions.



Other important RUD specific information and specialities to our RUD lifting points can be found on page 9 and in the specific user instruction (www.rud.com).



PP-S / PP-B / PP-VIP // metric thread

Type	WLL [t]	weight [kg/pc.]	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	M	N [mm]	torque [Nm]	Ref. No.
PP-S – PowerPoint®-Star universal connection – metric														
PP-S-0.63t-M12	0.63	0.4	116	13	75	18	40	36	18	41	M12	-	10	7990719
PP-S-1.5t-M16	1.5	0.9	147	20	97	25	46	41	25	50	M16	-	30	7989719
PP-S-2.5t-M20	2.5	1.7	187	28	126	30	61	55	30	61	M20	-	70	7989075
PP-S-4t-M24	4	3.5	227	36	150	35	78	70	36	77	M24	-	150	7989076
PP-S-5t-M30	5 (6.7)	7.5	267	37	174	40	95	85	45	93	M30	-	225	7989720
PP-S-8t-M36	8 (10)	9.2	310	49	208	48	100	90	54	102	M36	-	410	7989077
PP-B – PowerPoint® Ring connection – metric														
PP-B-0.63t-M12	0.63	0.35	106	9	65	35	40	36	18	41	M12	15	10	7989522
PP-B-1.5t-M16	1.5	0.6	115	11	65	35	46	41	25	50	M16	15	30	7989523
PP-B-2.5t-M20	2.5	1.1	135	13	74	40	61	55	30	61	M20	18	70	7989081
PP-B-4t-M24	4	2.4	172	16	95	45	78	70	36	77	M24	20	150	7989082
PP-B-5t-M30	5 (6.7)	5.2	223	19	130	60	95	85	45	93	M30	25	225	7989524
PP-B-8t-M36	8 (10)	6.3	242	24	140	65	100	90	54	102	M36	28	410	7989083
PP-VIP – PowerPoint® direct VIP-chain connection – metric														
PP-VIP4-0.63t-M12	0.63	0.25	41	4	-	-	40	36	18	-	M12	-	10	7989525
PP-VIP6-1.5t-M16	1.5	0.45	50	6	-	-	46	41	25	-	M16	-	30	7989526
PP-VIP8-2.5t-M20	2.5	0.95	61	8	-	-	61	55	30	-	M20	-	70	7989527
PP-VIP10-4t-M24	4	2.2	77	10	-	-	78	70	36	-	M24	-	150	7989528
PP-VIP13-5t-M30	5 (6.7)	3.5	93	13	-	-	95	85	45	-	M30	-	225	7989529
PP-VIP16-8t-M36	8 (10)	5.2	102	16	-	-	100	90	54	-	M36	-	410	7989530

() = higher WLL due to axial loading

subject to technical modifications

