

Q.Safe MQS-SH Screw very high pressure











rodaindustria Ibérica s.a.



MQS-SH Screw very high pressure

Summary

- Feature and Technical information
- Product Structure with PLUS & BENEFIT
- Main Applications
- Benchmarking









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MQS-SH Screw very high pressure Features and Technical information

- Screw-on connection/disconnection system
- Connectable/disconnectable under pressure
- Internal components reinforced, made in steel
- Hardened valve bodies
- Three-part poppet valve with a moulded shaped seal
- Mechanical backstop to prevent partial enclosures of valves due to peaks and back-flow
- GREAT resistance to back-flow, flow impulse, flow peaks, pressure impulse, pressure peaks, vibration (heavy duty applications)
- Interchangeable with other products and widely used in the market
- Accessories (plugs and caps) and spare parts kits available
- 1/4" and 1-1/4" size, available at the end of 2010
- Wide range of termination end

			MPa		FLOW RATE		(0	
	SIZE		WORKING PRESSURE (Dynamic)		RATED FLOW at 0,2MPa of pressure drop		OIL SPILLAGE Connection/ Disconnection		MINIMUM BURST PRESSURE (MPa)						CONNECTION / DISCONNECTION UNDER PRESSURE	
mm inch dash		dash	MPa	PSI	L/min.	US	cc.	cubic	Male		Female		M+F			
111111	mai	uasii	ivira	FOI	1 /1111111.	GPM	CC.	inch	MPa	PSI	MPa	PSI	MPa	PSI		
10	3/8"	-06	70	10150	31	8,2	1,5	0,092	250	36250	330	47850	320	46400	Allowed max. 30Mpa	
12,5	1/2"	-08	70	10150	51	13,5	2,2	0,134	220	31900	240	34800	310		Allowed max. 30Mpa	
20	3/4"	-12	65	9425	102	26,9	4	0,244	200	29000	250	36250	310	44950	Allowed max. 30Mpa	
25	1"	-16	60	8700	170	44,9	7,5	0,458	200	29000	230	33350	270	39150	Allowed max. 30Mpa	
.00,			Pressi	ure Drop					100.00				Pressu	re Drop	r;	
					//	/								//		
0,10								Pressure Dron fosi		06	08		12	16		
		06	08	12 16												
01		06	08	12 16	100,0		1000,0		1,00				10.0		1	





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MQS-SH Screw very high pressure Product Structure with PLUS & BENEFIT

BENEFIT

Plus

INCREASE SERVICE LIVE

Increased thickness of backup ring

Easy connection by tools in case of connection/disconnection under pressure and to applying tightening torque

Sleeve with Hexagon profile

REDUCED RISK OF SEAL WASHOUT IN CASE OF:

- High flow rate
- Connection/disconnection under

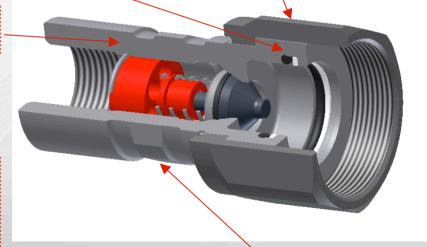
Three-part poppet valve with a moulded shaped seal

Female and Male body in high resistance steel. Hardened poppet valve

INCREASE PERFORMANCES

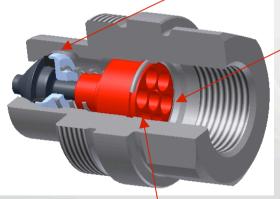
Cr3+ surface coating for an excellent resistance to corrosion, salt spray resistance: 240 hours for white corrosion and 400 for red corrosion no (not assembly componets)

INCREASE SERVICE LIVE



Position of hexagon zone(not over the thread), to quarantee constant cross section area.

IMPROVE RESISTANCE OF THREAD AREA



Internal components streamlined in shape

REDUCE PRESSURE DROP

Internal components made in steel

- -Connection/disconnectio n under pressure
- High resistance to Backflow,flow peaks and impulses

Q.Safe



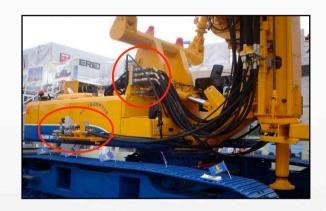
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Main Applications

- Drilling machines
- Hydraulic hammers
- Demolition machine
- Crushers
- Hydraulic GRAB













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MQS-SH Screw very high pressure Benchmarking

FAMILY	SIZE	WORKING PRESSURE (Dynamic)			BURST PRESSURE		IMPULSE PRE at 120%	SSURES (50 of the rated of	00.000 cyc ones, freq.	RATEDFLOW at 0,2 MPa of pressure dr		WORKING TEM PERATURE (NBR SEALS)
		MALE (MPa)	FEMALE (MPa)	M+F (MPa)	M+F (MPa)	SAFETY FACTOR 1:4	MALE (MPa)	FEMALE (MPa)	M+F (MPa)	(L/min.)	(cc.)	(°C)
M QS-SH	3/8"	70	70	70	340	YES	OK	OK	ок	31	1,5	-30° +110°
COMPETITOR	3/8"	37,5	37,5	75	280	NO	reduce W.P. of 0.5	reduce W.P. of 0.5	damage	24,1	1,9	-20° +100°
M QS-SH	1/2"	70	70	70	330	YES	ОК	OK	ОК	50,7	2,2	-30° +110°
COMPETITOR	1/2"	37,5	37,5	75	220	NO	reduce W.P. of 0.5	reduce W.P. of 0.5	damage	38,2	2,8	-20° +100°
M QS-SH	3/4"	65	65	65	340	YES	ОК	ок	ОК	102,4	4	-30° +110°
COMPETITOR	3/4"	32,5	32,5	65	210	NO	reduce W.P. of 0.5	reduce W.P. of 0.5	damage	76,4	5,8	-20° +100°
M QS-SH	1"	60	60	60	290	YES	ОК	OK	ОК	169,6	7,5	-30° +110°
COMPETITOR	1"	22,5	22,5	45	220	YES	reduce W.P. of 0.5	reduce W.P. of 0.5	damage	120,3	10,9	-20° +100°
COMMENTS		dynamic pro	declare: For essure (im pul nnect apply a 0.5		3 sizes w ithout safety factor 1:4. Working pressure declare is not correct.		Competitor demage:3/8"> after 124.000 cycles (sleeve damage); 1/2"> after 302.000 cycles (o-ring & back-up ring extruded); 3/4"> after 25.400 cycles (sleeve damage); 1"> after 17.000 cycles (sleeve damage).			Thanks to Internal components streamlined in shape and design of poppet valve, on MQS-SH the rated flow is higher than competiros, this generates considerable benefits in the handling of actuators. Oil loss during connection/disconnection is valve, on MQS-SH the rate of the connection is low er on Manuli product generates considerable benefits in the handling of actuators.		



